WEST Search History

Hide Items Restore Clear Cancel

DATE: Wednesday, June 29, 2005

Hide?	Set Name	<u>Query</u>	Hit Count
	DB=PGPB; THES=AS	SSIGNEE; PLUR=YES; OP=ADJ	
	L10	L2	0
	DB=USPT; THES=AS	SIGNEE; PLUR=YES; OP=ADJ	
	L9	L8 and Ns3	14
	L8	L6	22
	DB=DWPI; THES=AS	SIGNEE; PLUR=YES; OP=ADJ	
	L7	L6	0
	DB=PGPB, USPT, EPA	B,JPAB,DWPI; THES=ASSIGNEE; PLUR=YE	ES; OP=ADJ
	L6	ELISA and L1	48
	DB=USPT; THES=AS	SIGNEE; PLUR=YES; OP=ADJ	
	L5	L4 and core	27
	L4	L3 and NS	39
	L3	L2 and solid	44
	L2	L1	45
	DB=PGPB, USPT, USC	OC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PL	UR=YES; OP=ADJ
	L1	HCV adj assay	92

END OF SEARCH HISTORY

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 1 through 10 of 27 returned.

☐ 1. Document ID: US 6855809 B2

L5: Entry 1 of 27

File: USPT

Feb 15, 2005

US-PAT-NO: 6855809

DOCUMENT-IDENTIFIER: US 6855809 B2

TITLE: Methods for the simultaneous detection of HCV antigens and HCV antibodies

DATE-ISSUED: February 15, 2005

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME Shah; Dinesh O. Libertyville ILDawson; George J. Libertyville ILMuerhoff; A. Scott Kenosha WI Jiang; Lily Mundelein ILGutierrez; Robin A. Gurnee ΙL Leary; Thomas P. Kenosha WT Desai; Suresh Libertyville ILStewart; James L. Libertyville IL

US-CL-CURRENT: 530/350; 424/184.1, 424/189.1, 424/192.1, 424/204.1, 435/320.1, 435/325, 435/69.1, 435/7.1, 435/7.92, 536/23.4, 536/23.72

Full	Titl∈	Citation	Front	Review	Classification	Date	Reference	5.27 (3.4.7)	Claims	KWC	Drawe Dieso	lma

2. Document ID: US 6797809 B2

L5: Entry 2 of 27

File: USPT

Sep 28, 2004

US-PAT-NO: 6797809

DOCUMENT-IDENTIFIER: US 6797809 B2

TITLE: Multiple fusion antigens for use in immunoassays for anti-HCV antibodies

DATE-ISSUED: September 28, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Chien; David Y. Alamo CA Arcangel; Phillip Oakland CA Tandeske; Laura San Leandro CA George-Nascimento; Carlos Walnut Creek CA Coit; Doris Petaluma CA

Medina-Selby; Angelica

San Francisco

CA

US-CL-CURRENT: 530/350; 424/189.1, 424/202.1, 424/228.1, 436/518, 530/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Pravu Desc	lma

3. Document ID: US 6727092 B2

L5: Entry 3 of 27

File: USPT

Apr 27, 2004

Apr 20, 2004

US-PAT-NO: 6727092

DOCUMENT-IDENTIFIER: US 6727092 B2

TITLE: Methods for the simultaneous detection of HCV antigens and HCV antibodies

DATE-ISSUED: April 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shah; Dinesh	Libertyville	IL		
Dawson; George	Libertyville	IL		
Muerhoff; A. Scott	Kenosha	WI		
Leary; Thomas P.	Kenosha	WI		
Guetierrez; Robin A.	Gurnee	IL		
Jiang; Lily	Mundelein	IL		
Desai; Suresh	Libertyville	IL		
Stewart; James L.	Libertyville	IL		

US-CL-CURRENT: 435/320.1; 435/252.3, 435/252.33, 530/350, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Drawe Desc	lma
											•	
								 ***************************************	·····			

File: USPT

US-PAT-NO: 6723502

L5: Entry 4 of 27

DOCUMENT-IDENTIFIER: US 6723502 B2

TITLE: Hepatitis C antigen--antibody combination assay for the early detection of

infection

DATE-ISSUED: April 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahl; Chander	Flemington	NJ	08822	
Niven; Patrick	Denville	NJ	07834	•
Samson; Antonio	Livingston	NJ	07039	
Madjor; Denise	Yardville	NJ	08620	

US-CL-CURRENT: <u>435/5</u>; <u>436/518</u>

http://westbrs:9000/bin/gate.exe?f=TOC&state=gh547k.6&ref=5&dbname=USPT&ESNAME... 6/29/05

Full Title Citation Front Review Classification Date Reference

5. Document ID: US 6692908 B1

L5: Entry 5 of 27

File: USPT

Feb 17, 2004

US-PAT-NO: 6692908

DOCUMENT-IDENTIFIER: US 6692908 B1

** See image for Certificate of Correction **

TITLE: Prevention and treatment of HCV infection employing antibodies that inhibit the

interaction of HCV virions with their receptor

DATE-ISSUED: February 17, 2004

INVENTOR-INFORMATION:

NAME

CITY

Stanford

STATE ZIP CODE

COUNTRY

Foung; Steven K. H. Hadlock; Kenneth G.

San Francisco

_ CA CA

US-CL-CURRENT: 435/5; 435/339, 530/388.3

Full	Titl∈	Citation	Front	Review	Classification	Date	Reference	33	Claims	KWC	Drawu Deso	Ima

☐ 6. Document ID: US 6632601 B2

L5: Entry 6 of 27

File: USPT

Oct 14, 2003

US-PAT-NO: 6632601

DOCUMENT-IDENTIFIER: US 6632601 B2

TITLE: Immunoassays for anti-HCV antibodies

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Chien; David Y. Alamo CA Arcangel; Phillip Oakland CA Tandeske; Laura San Leandro CA George-Nascimento; Carlos Walnut Creek CA Coit; Doris Petaluma CA Medina-Selby; Angelica San Francisco CA

US-CL-CURRENT: 435/5; 435/23, 436/518

Full Title Citation Front Review Classification Date Reference Casterina Claims NMC Draw Desc Ima

7. Document ID: US 6630298 B2

L5: Entry 7 of 27

File: USPT

Oct 7, 2003

Record List Display

US-PAT-NO: 6630298

DOCUMENT-IDENTIFIER: US 6630298 B2

TITLE: HCV antigen/antibody combination assay

DATE-ISSUED: October 7, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Chien; David Y. CA Alamo Arcangel; Phillip Oakland CA San Leandro CA Tandeske; Laura George-Nascimento; Carlos Walnut Creek CA Coit; Doris Petaluma CA San Francisco CA Medina-Selby; Angelica

US-CL-CURRENT: 435/5; 435/23, 436/518

Full	Titl⊕	Citation	Front	Review	Classification	Date	Reference	32 / 14 M W W W W W W W W W W W W W W W W W W	Claims	KOMC	Draw Desc	lma

□ 8. Document ID: US 6596476 B1

L5: Entry 8 of 27 File: USPT Jul 22, 2003

US-PAT-NO: 6596476

DOCUMENT-IDENTIFIER: US 6596476 B1

TITLE: Hepatitis C assay

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lesniewski; Richard R. Kenosha WI Leung; Tat K. Waukegan IL

US-CL-CURRENT: 435/5; 436/518, 436/820

Title Citation Front Review Classification Date Reference 2 2 2 2 2 2 1 Claims NWC Draw Des	eso
---	-----

9. Document ID: US 6593083 B1

L5: Entry 9 of 27 File: USPT Jul 15, 2003

US-PAT-NO: 6593083

DOCUMENT-IDENTIFIER: US 6593083 B1

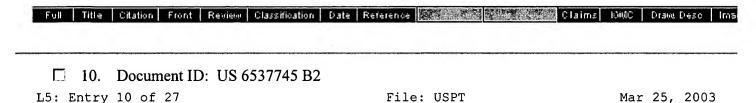
TITLE: Hepatitis C assay utilizing recombinant antigens

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Devare; Sushil G.	Northbrook	IL	60062	
Desai; Suresh M.	Libertyville	IL	60048	
Casey; James M.	Zion	IL	60099	
Dailey; Stephen H.	Vernon Hills	IL	60061	
Dawson; George J.	Libertyville	IL	60048	
Gutierrez; Robin A.	Gumee	IL	60031	
Lesniewski; Richard R.	Kenosha	WI	53142	
Stewart; James L.	Gumee	IL	60031	
Rupprecht; Kevin R.	Grayslake	IL	60030	

US-CL-CURRENT: 435/5; 435/69.1, 435/7.1, 435/71.3, 436/536



US-PAT-NO: 6537745

DOCUMENT-IDENTIFIER: US 6537745 B2

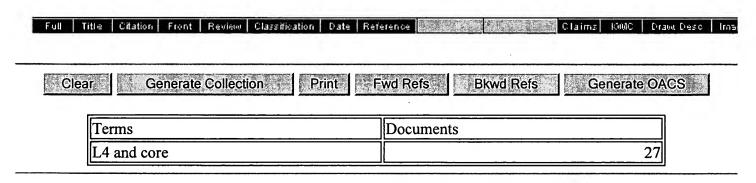
TITLE: Buffers for stabilizing antigens

DATE-ISSUED: March 25, 2003

INVENTOR-INFORMATION:

ZIP CODE NAME CITY STATE COUNTRY Chien; David Y. Emeryville CA Arcangel; Phillip Emeryville CA Tirell; Stephen Emeryville CA Zeigler; Wanda Emeryville CA

US-CL-CURRENT: 435/5; 436/176, 436/18



Display Format: CIT Change Format

Previous Page Next Page Go to Doc#

Libertyville	IL
Gurnee	IL
Lindenhurst	IL
Evanston .	IL
Gurnee	IL
Chicago	IL
Waukegan	IL
Grayslake	IL
late of Antioch	IL
Lindenhurst	IL
Lindenhurst	IL
	Gurnee Lindenhurst Evanston Gurnee Chicago Waukegan Grayslake late of Antioch Lindenhurst

US-CL-CURRENT: $\frac{436}{530}$; $\frac{435}{287.2}$, $\frac{435}{287.9}$, $\frac{435}{7.91}$, $\frac{435}{7.92}$, $\frac{435}{7.93}$, $\frac{435}{7.94}$, $\frac{435}{7.95}$, $\frac{436}{501}$, $\frac{436}{808}$, $\frac{436}{809}$

Full	Title	Citation	Front	Review	Classificatio	n Date	Reference				Clair	is KNMC	Draw Desc	
												•		
0				A 11		6	- 15	7	6			~ ·	0400	1
CI	ear	Ge	enerate	Collect	ion	Print /	Fwd R	efs	Bkw	d Refs		Generat	e OACS	
CI	ear	Ge	enerate	Collect	ion	Print	Fwd R	efs	Bkw	d Refs	241 ₁₈₈ 23	Generat	e OACS	
- (CI		ms	enerate	Collect	ion 🔠 🖺	Print		efs.	The National Residence	d Refs		Generat	e OACS	

Display Format: CIT Change Format

<u>Previous Page</u> <u>Next Page</u> <u>Go to Doc#</u>

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 11 through 20 of 27 returned.

☐ 11. Document ID: US 6514731 B1

L5: Entry 11 of 27

File: USPT

Feb 4, 2003

US-PAT-NO: 6514731

DOCUMENT-IDENTIFIER: US 6514731 B1

TITLE: Methods for the preparation of hepatitis C virus multiple copy epitope fusion

antigens

DATE-ISSUED: February 4, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Valenzuela; Pablo D. T. Berkeley CA Chien; David Ying Alamo CA

US-CL-CURRENT: $\underline{435}/\underline{69.7}$; $\underline{424}/\underline{189.1}$, $\underline{424}/\underline{228.1}$, $\underline{435}/\underline{5}$, $\underline{435}/\underline{7.1}$, $\underline{530}/\underline{300}$, $\underline{530}/\underline{350}$,

536/23.72

Full Title Citation Front Review Classification Date Reference

12. Document ID: US 6428792 B1

L5: Entry 12 of 27 File: USPT Aug 6, 2002

US-PAT-NO: 6428792

DOCUMENT-IDENTIFIER: US 6428792 B1

** See image for Certificate of Correction **

TITLE: Hepatitis C virus multiple copy epitope fusion antigens

DATE-ISSUED: August 6, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Valenzuela; Pablo D. T. Berkeley CA Chien; David Ying Alamo CA

US-CL-CURRENT: 424/228.1; 424/189.1, 424/192.1, 435/5, 435/69.1, 435/69.7, 530/300,

<u>530/350</u>

Full Title Citation Front Review Classification Date Reference

☐ 13. Document ID: US 6391540 B1

Page 2 of 5

Record List Display

May 21, 2002 File: USPT L5: Entry 13 of 27

US-PAT-NO: 6391540

DOCUMENT-IDENTIFIER: US 6391540 B1

TITLE: Method for detecting antibodies in a sample

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

CA Chien; David Y. Emeryville Arcangel; Phillip Emeryville CA Tirell; Stephen Emeryville CA Zeigler; Wanda Emeryville CA

US-CL-CURRENT: 435/5; 435/7.94, 435/7.95, 436/518, 436/820

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	юмс	Drawe Desc	Ima
								,,,,	 			
			•		•							
					322965 B1							

L5: Entry 14 of 27 File: USPT Nov 27, 2001

US-PAT-NO: 6322965

DOCUMENT-IDENTIFIER: US 6322965 B1

TITLE: Chimera antigen peptide

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY JΡ Yamaguchi; Kenjiro Saitama Kashiwakuma; Tomiko Saitama JP Chiba; Yukie Saitama JP Yaqi; Shintaro Saitama JΡ Hasegawa; Akira Saitama JΡ

US-CL-CURRENT: 435/5; 435/440, 435/455, 435/471, 435/69.1, 435/69.3, 435/69.7, 435/7.1, <u>436/501, 436/536, 436/811, 436/820, 530/350, 530/806, 530/826, 536/23.1, 536/23.4,</u> 536/23.72

Full T	Title C	Citation	Front	Review	Classification	Date	Reference	H 1	Claims	10000	Drawe Desc	Iras

☐ 15. Document ID: US 6261764 B1

L5: Entry 15 of 27 File: USPT Jul 17, 2001

US-PAT-NO: 6261764

DOCUMENT-IDENTIFIER: US 6261764 B1

Record List Display

TITLE: Buffers for stabilizing antigens

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Chien; David Y. Alamo CA
Arcangel; Phillip Berkeley CA
Tirell; Stephen Franklin MA
Zeigler; Wanda Medway MA

US-CL-CURRENT: 435/5; 436/176, 436/18

		I Front	Review	I Classification	Date	Reference			Claims	Konto	Drawt Desc
11112	Otternon	1 100111	11.5 11.5 11.7	CIMPATION	0.010	Hererenoe	162 W. W. Stille C. M. S. C.	SHOWER RESERVE OF A CANADA	01011110	10000	10.000

☐ 16. Document ID: US 6172189 B1

L5: Entry 16 of 27 File: USPT Jan 9, 2001

US-PAT-NO: 6172189

DOCUMENT-IDENTIFIER: US 6172189 B1

TITLE: Hepatitis C assay utilizing recombinant antigens

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Devare; Sushil G. Northbrook IL Desai; Suresh M. Libertyville IL Casey; James M. Zion ILDailey; Stephen H. Vernon Hills ILDawson; George J. Libertyville ILGutierrez; Robin A. Gurnee IL Lesniewski; Richard R. Kenosha WI Stewart; James L. Gurnee IL Rupprecht; Kevin R. Grayslake IL

US-CL-CURRENT: <u>530/350</u>; <u>424/228.1</u>, <u>435/5</u>, <u>435/69.3</u>, <u>435/7.1</u>, <u>530/300</u>, <u>530/326</u>, <u>530/327</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	3.0	Claims	KHAC	Draw, Desc	Ima
------	-------	----------	-------	--------	----------------	------	-----------	-----	--------	------	------------	-----

17. Document ID: US 6153378 A

L5: Entry 17 of 27 File: USPT Nov 28, 2000

US-PAT-NO: 6153378

DOCUMENT-IDENTIFIER: US 6153378 A

TITLE: Diagnosis of, and vaccination against, a positive stranded RNA virus using an isolated, unprocessed polypeptide encoded by a substantially complete genome of such virus

Page 4 of 5

Feb 1, 2000

Record List Display

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Liao; Jaw-Ching Taipei TW Wang; Cheng-Nan Taipei TW

US-CL-CURRENT: $\underline{435/5}$; $\underline{424/189.1}$, $\underline{424/192.1}$, $\underline{424/204.1}$, $\underline{435/471}$, $\underline{435/69.3}$, $\underline{435/7.1}$,

<u>435/810</u>, <u>435/948</u>

Full Title Citation Front Review Classification Date Reference Claims KWIC Draws Desc Ims.

18. Document ID: US 6020122 A

File: USPT

US-PAT-NO: 6020122

L5: Entry 18 of 27

DOCUMENT-IDENTIFIER: US 6020122 A

TITLE: Hepatitis C virus second envelope (HCV-E2) glycoprotein expression system

DATE-ISSUED: February 1, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Okasinski; Gregory F. Wadsworth IL Schaefer; Verlyn G. Libertyville IL Suhar; Thomas S. Lindenhurst IL Lesniewski; Richard R. Kenosha WI

US-CL-CURRENT: 435/5; 424/189.1, 424/228.1, 435/69.1, 435/71.1, 530/350

Full Title Citation Front Review Classification Date Reference Claims RIVIC Draws Desc Image

☐ 19. Document ID: US 5863719 A

L5: Entry 19 of 27 File: USPT Jan 26, 1999

US-PAT-NO: 5863719

DOCUMENT-IDENTIFIER: US 5863719 A

TITLE: Methods for detecting hepatitis C virus using polynucleotides specific for same

DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Houghton; Michael Danville CA
Choo; Qui-Lim El Cerrito CA
Kuo; George San Francisco CA

US-CL-CURRENT: 435/5; 435/6, 435/91.1, 435/91.2, 536/23.72, 536/24.3

http://westbrs:9000/bin/cgi-bin/accum_query.pl



☐ 20. Document ID: US 5763159 A

L5: Entry 20 of 27

File: USPT

Jun 9, 1998

US-PAT-NO: 5763159

DOCUMENT-IDENTIFIER: US 5763159 A

** See image for Certificate of Correction **

TITLE: Hepatitis-C virus testing

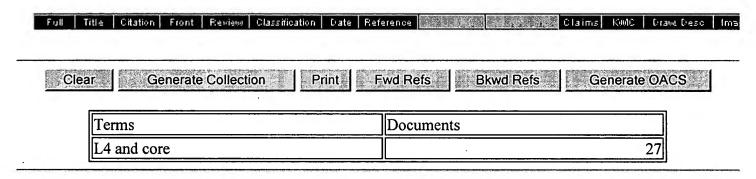
DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Simmonds; Peter Edinburgh GB
Chan; Shui-Wan Cambridge GB
Yap; Peng Lee Edinburgh GB

US-CL-CURRENT: 435/5; 436/518, 436/820, 530/326, 536/23.72



Display Format: CIT Change Format

Previous Page Next Page Go to Doc#

Hit List

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Search Results - Record(s) 21 through 27 of 27 returned.

21. Document ID: US 5736321 A

L5: Entry 21 of 27

File: USPT '

Apr '7, 1998

US-PAT-NO: 5736321

DOCUMENT-IDENTIFIER: US 5736321 A

TITLE: Peptides effective for diagnosis and detection of hepatitis C infection

DATE-ISSUED: April 7, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hosein; Barbara Helen New York NY Wang; Chang Yi Cold Spring Harbor NY

US-CL-CURRENT: 435/5; 436/820, 530/350



22. Document ID: US 5716779 A

L5: Entry 22 of 27 File: USPT

Feb 10, 1998

US-PAT-NO: 5716779

DOCUMENT-IDENTIFIER: US 5716779 A

** See image for Certificate of Correction **

TITLE: Diagnostic antigen and a method of in vitro diagnosing an active infection caused

by hepatitis C virus

DATE-ISSUED: February 10, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Sallberg; Matti Alvsjo SE Trojnar; Jerzy Vintrie SE

US-CL-CURRENT: 435/5; 530/325



☐ 23. Document ID: US 5714596 A

L5: Entry 23 of 27 File: USPT Feb 3, 1998

Record List Display

US-PAT-NO: 5714596

DOCUMENT-IDENTIFIER: US 5714596 A

TITLE: NANBV diagnostics: polynucleotides useful for screening for hepatitis C virus

DATE-ISSUED: February 3, 1998

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY NAME CA Houghton; Michael Danville CA Choo; Qui-Lim El Cerrito San Francisco CA Kuo; George Weiner; Amy J. Oakland CA Han; Jang Lafayette CA CA Urdea; Michael Steven Alamo Irvine; Bruce Duncan Concord CA Kolberg; Janice A. Richmond CA

US-CL-CURRENT: <u>536/23.72</u>; <u>435/5</u>, <u>435/6</u>, <u>435/91.1</u>, <u>435/91.33</u>, <u>436/94</u>, <u>536/23.1</u>, <u>536/24.3</u>, <u>536/25.3</u>2

TUI INE CO	ation Front Revie	w Classification Date	Reference	Claims KMAC Draw Desc Im

☐ 24. Document ID: US 5712088 A

L5: Entry 24 of 27

File: USPT

Jan 27, 1998

US-PAT-NO: 5712088

DOCUMENT-IDENTIFIER: US 5712088 A

TITLE: Methods for detecting Hepatitis C virus using polynucleotides specific for same

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Houghton; Michael Danville CA Choo; Qui-Lim El Cerrito CA Kuo; George San Francisco CA Weiner; Amy J. Oakland CA Han; Jang Lafayette CA Urdea; Michael Steven Alamo CA Irvine; Bruce Duncan Concord CA Kolberg; Janice A. Richmond CA

US-CL-CURRENT: 435/5; 435/6, 435/91.1, 435/91.2, 435/91.32, 536/23.1, 536/24.32, 536/24.33, 536/25.3

							Fire and the second sec				
Full Title	Citation	Front	Review	Classification	Date	Reference		Claims	RAMIC	Drawu Desc	Ima

25. Document ID: US 5705330 A

L5: Entry 25 of 27 File: USPT Jan 6, 1998

US-PAT-NO: 5705330

DOCUMENT-IDENTIFIER: US 5705330 A

TITLE: Chemiluminescent immunoassay for antibody detection

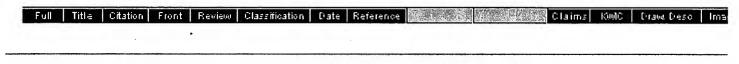
DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Shah; Dinesh O. Libertyville IL Richerson; Russell B. Barrington IL

US-CL-CURRENT: $\underline{435}/\underline{5}$; $\underline{435}/\underline{7.92}$, $\underline{435}/\underline{975}$, $\underline{436}/\underline{172}$, $\underline{436}/\underline{518}$, $\underline{436}/\underline{805}$, $\underline{436}/\underline{808}$



☐ 26. Document ID: US 5574132 A

L5: Entry 26 of 27 File: USPT Nov 12, 1996

US-PAT-NO: 5574132

DOCUMENT-IDENTIFIER: US 5574132 A

TITLE: Peptides and mixtures thereof for detecting antibodies to hepatitis C virus (HCV)

DATE-ISSUED: November 12, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lacroix; Martial Brossard CA

US-CL-CURRENT: $\underline{530}/\underline{323}$; $\underline{530}/\underline{324}$, $\underline{530}/\underline{325}$, $\underline{530}/\underline{326}$, $\underline{530}/\underline{327}$, $\underline{530}/\underline{332}$, $\underline{930}/\underline{220}$, $\underline{930}/\underline{30}$

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Desc Ima

☐ 27. Document ID: US 5120662 A

L5: Entry 27 of 27 File: USPT Jun 9, 1992

US-PAT-NO: 5120662

DOCUMENT-IDENTIFIER: US 5120662 A

TITLE: Multilayer solid phase immunoassay support and method of use

DATE-ISSUED: June 9, 1992

INVENTOR-INFORMATION:

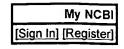
NAME CITY STATE ZIP CODE COUNTRY

Chan; Emerson W. Libertyville IL Schulze; Werner Waukegan IL









All Databases	PubMed	Nucleotide	Protein	Genome	Structu	ire C	MIM	PMC	Journals	Books
Search PubMed		for						Previe	ew Go	Clear.
,	_	~	(· ·)		~	`			
	⊡ Li	mits Previe	w/Index	History	Clipboard	Deta	ils			

Limits: Publication Date to 1996/05/07

About Entrez

Text Version

Entrez PubMed Overview Help | FAQ Tutorial

New/Noteworthy E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut

• Search History will be lost after eight hours of inactivity.

- To combine searches use # before search number, e.g., #2 AND #6.
 - Search numbers may not be continuous; all searches are represented.
 - Click on query # to add to strategy

	Search	Most Recent Queries	Time	Result
		ch "Sato A" [Author] Limits: Publication Date to /05/07	12:32:21	<u>1052</u>
		ch HCV diagnosis and ELISA and NS3 and core Limits: ication Date to 1996/05/07	12:28:11	<u>14</u>
•		ch HCV diagnosis and ELISA Limits: Publication Date 96/05/07	12:27:52	718
		ch HCV diagnosis Field: All Fields, Limits: Publication to 1996/05/07	12:27:39	<u>2152</u>
	#3 Rela	ted Articles for PubMed (Select 10455446)	08:05:24	94
	#1 Searc	ch Cornetta K 1999	08:03:18	<u>'6</u>

Clear History

Related Resources Order Documents NLM Catalog NLM Gateway TOXNET Consumer Health Clinical Alerts ClinicalTrials.gov PubMed Central

My NCBI (Cubby)

Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Privacy Statement | Freedom of Information Act | Disclaimer

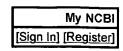
Jun 27 2005 04:57:20





□ 1: Vox Sang. 1995;68(1):15-8.





Related Articles, Links

			•						
All Databases	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	PMC	Journals	Books
Search PubMed		for			annananan sarana i saran sar Militerati Harr - A	Ter 1880100 in the 1880 in 18 - + 1	Go C	lear	
	/ ⊡ Lin	nits Previe	w/Index	History	Clipboard	Details	. `		
	Limits:	Publication	Date to 1	996/05/07					
About Entrez	Display	Abstract	[5	Show 20	Sort by	S€	end to	2	
Text Version	All: 1	Review: 0	*						
Entrez PubMed					•				

Entrez PubMed
Overview
Help | FAQ
Tutorial
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI (Cubby)

Related Resources
Order Documents
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

Improved detection of anti-HCV in post-transfusion hepatitis by a third-generation ELISA.

Barrera JM, Francis B, Ercilla G, Nelles M, Achord D, Darner J, Lee SR.

Hospital Clinic I Provincial de Barcelona, Spain.

The sensitivity of ORTHO HCV 3.0 ELISA Test System (ELISA 3) for the detection of anti-HCV was compared with the second-generation ELISA, OR-THO HCV 2.0 ELISA Test System (ELISA 2). ELISA 3 differs from ELISA 2 in that it incorporates the HCV recombinant antigen NS5, in addition to recombinant antigens derived from the NS3, NS4 and core regions of the HCV genome. Specimens tested consisted of serial bleeds obtained from 21 individuals undergoing seroconversion following acquisition of post-transfusion HCV infection. ELISA 3 demonstrated significantly greater sensitivity than ELISA 2, detecting seroconversion earlier in 24% (5/21) of cases. Although one of these cases appeared to represent early seroconversion to NS5, most of the improved sensitivity of ELISA 3 appeared to derive from increased detectability of anti-c33c.

PMID: 7536987 [PubMed - indexed for MEDLINE]

						,					
Display	Abstract	Y	Show	20	7	Sort	by	7	Send	to	Y.

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

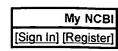
Jun 27 2005 04:57:20





☐ 1: J Pediatr. 1993 Sep;123(3):381-7.





Related Articles, Links

All Databases	PubMed	Nucleotide	Protein	Genome	Structure	OMIM .	PMC	slamuot	Books
Search PubMed		for					Go	Clear	
	✓ ☑ Lin	v nite Previev	w/Index	₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	Clipboard	Details	`		
		Publication			Onpocard	Botano			
About Entrez	Display	Abstract	Z	Show 20	Sort by	Se Se	nd to	∇	
Text Version	All: 1	Review: 0	*						

Entrez PubMed
Overview
Help | FAQ
Tutorial
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI (Cubby)

Related Resources
Order Documents
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

Hepatitis C virus infection in children with hemophilia: characterization of antibody response to four different antigens and relationship of antibody response, viremia, and hepatic dysfunction.

Kanesaki T, Kinoshita S, Tsujino G, Yoshioka K, Ikegami N.

Department of Pediatrics, Osaka National Hospital, Japan.

We studied hepatitis C virus (HCV) infection in children with hemophilia by characterizing the antibody responses to four different HCV antigens and investigating the relationship of the antibody response to viremia and hepatic dysfunction. Three antigens (core, nonstructural (NS) 3, and NS5) were expressed in Escherichia coli transfected with plasmids that contained fragments of the putative core and of the NS3 and NS5 regions of the HCV genome, respectively. Antibody responses to these three antigens and the commercially available C100 antigen were detected by enzyme-linked immunosorbent assay. In 45 children with hemophilia, the percentage of children with seropositivity for C100, core, NS3, and NS5 protein in one or more specimens was 82%, 91%, 91%, and 89%, respectively. The time course of changes in the antibody response to the four antigens was determined by using sera obtained from 44 of the 45 patients at intervals of 1 to 4 years. Antibodies to the core and NS3 antigens appeared earlier and persisted longer than those to C100 and NS5 after HCV infection. The relationship of antibody response to viremia and hepatic dysfunction was investigated in 27 children by using the polymerase chain reaction assay. Five children whose tests results were negative for all four antigens did not have viremia or hepatic dysfunction; 13 of the 16 children with positive results for the four antigens had both viremia and hepatic dysfunction. Five of the six children whose serum had the core and NS3 antibodies but not either C100 or NS5, or both, had viremia, and three of them also had hepatic dysfunction. These results suggest that detection of antibodies to the core and NS3 antigens is useful for the serologic diagnosis of HCV infection and that both antibodies are more related to viremia than are the antibodies to C100 and NS5. In addition, viremia is strongly associated with hepatic dysfunction.

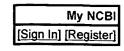
PMID: 7689096 [PubMed - indexed for MEDLINE]

Display Abstract	Sho	_{ow} 20	100 100 100	ру 🔽	Send to	∇









All Databases	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	PMC	Journals	Books
Search PubMed		for		TT 10.4 date dellessed absenced in co. 14st			Go (Clear	
	∠ ☑ Lim	its Previe	w/Index		Clipboard	Details	`		
About Entrez		Publication Abstract			Sort by	Se	nd to		
Text Version	All: 1	Review: 0	X						
Entrez PubMed Overview Help FAQ Tutorial	` □ 1: So	cand J Gastro	enterol. 1	991 Dec;26	(12):1257-62	2.		Related Ar	ticles, Links

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI (Cubby)

New/Noteworthy E-Utilities

Related Resources
Order Documents
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

Antibodies to recombinant and synthetic peptides derived from the hepatitis C virus genome in long-term-studied patients with posttransfusion hepatitis C.

Mattsson L, Gutierrez RA, Dawson GJ, Lesniewski RR, Mushahwar LK, Weiland O.

Dept. of Infectious Diseases, Karolinska Institute, Roslagstull Hospital, Stockholm, Sweden.

Eight of 13 Swedish patients (62%), studied prospectively, who developed posttransfusion non-A, non-B hepatitis (PT-NANBH) had earlier been found to seroconvert for antibodies to hepatitis C virus (anti-HCV) c100-3 in the first-generation anti-HCV enzyme-linked immunosorbent assay 1-18 (mean, 8) weeks after onset of hepatitis. By using a second-generation test utilizing antigens encoded by the core NS3 and NS4 region of HCV, a further four patients non-reactive to c100-3 (NS4) were found to seroconvert. Thus 12 of 13 (92%) Swedish patients with PT-NANBH were shown to have HCV infection. In addition, the serologic reactivity for several individual synthetic peptides and/or recombinant HCV proteins was studied in seven anti-HCV c100-3 seroconverts studied long-term after onset of acute PT-HCV infection. No special patterns were found that could differentiate patients who recovered from those who developed chronic HCV infection. It was concluded that the addition of new recombinant antigens derived from the core and NS3 region to c100-3 (NS4) both improved the sensitivity of the anti-HCV test and shortened the window phase to seroconversion.

PMID: 1722348 [PubMed - indexed for MEDLINE]

Display	Abstract	Δ	Show	20		by	Send	to	V

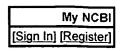
Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Privacy Statement | Freedom of Information Act | Disclaimer

Jun 27 2005 04:57:20









All Databases	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	PMC	Journals	Books
Search PubMed		for					Go	Clear	
	✓ ☑ Lin	nits Previe	w/Index	_	Clipboard	Details	`		
	Limits:	Publication	Date to 1	996/05/07					
About Entrez		Abstract			Sort by	▼ Se	nd to		
Text Version	All: 1	Review: 0	溪	V		,			
Entrez PubMed									
Overview	□ 1: J ₁	on J Cancer R	tes. 1992 l	Mar;83(3):2	64-8.			Related Art	icles, Links

Entrez PubMed Overview Help | FAQ Tutorial New/Noteworthy E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut

Related Resources
Order Documents
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

My NCBI (Cubby)

Serodiagnostic assay of hepatitis C virus infection using viral proteins expressed in Escherichia coli.

Mori S, Ohkoshi S, Hijikata M, Kato N, Shimotohno K.

Virology Division, National Cancer Center Research Institute, Tokyo.

Infection with hepatitis C virus (HCV) was analyzed by an enzyme-linked immunosorbent assay based on recombinant viral proteins encoded by regions of the putative viral core, NS3, NS4 and NS5, which were expressed in E. coli. Results showed that 106 of 124 cases (85.5%) of non-A, non-B chronic hepatitis and 43 of 45 cases (95.5%) of hepatocellular carcinoma, negative for HBV marker, were positive for antibodies against at least one of these viral proteins. One of 87 healthy individuals with normal alanine aminotransferase activity was positive for antibody against only the viral core, but was negative for HCV RNA. The serum of one patient with chronic hepatitis was positive for one of these proteins, but negative for HCV RNA. These findings in combination with results on detection of HCV RNA in the sera of patients with non-A, non-B chronic hepatitis indicated that 105 of 124 cases (84.6%) were positive for HCV infection. Sera that were negative for HCV antibodies against all these proteins were also negative for HCV RNA assayed by reverse transcription followed by the polymerase chain reaction. Screening of HCV infection by detecting viral antibodies in circulating blood using all these viral proteins is useful for reducing the number of ambiguous results in screening for viral infection. Thus, this assay system may be useful diagnostic purposes.

PMID: 1316340 [PubMed - indexed for MEDLINE]

	,		 			
Display Abstract	Show	20	Sort by	×	Send to	T

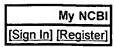
Write to the Help Desk
NCBI | NLM | NIH
Department of Health & Human Services
Privacy Statement | Freedom of Information Act | Disclaimer

Jun 27 2005 04:57:20









Water Committee									
All Databases	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	РМС	Journals	Books
Search PubMed		for _					Go C	lear	
	✓ <u>✓</u> Lin	nits Previe	w/Index		Clipboard	Details	`		
	Limits:	Publication	Date to 19	996/05/07					
About Entrez	Display	Abstract	Į.	Show 20	Sort by	Se	nd to	$\mathbf{\nabla}$	
Text Version	All: 1	Review: 0	3			,			
Entrez PubMed									
Overview	□1: J	Med Virol. 1	994 Sep;4	4(1):49-53.				Related Art	icles, Links

Entrez PubMed Overview Help | FAQ Tutorial New/Noteworthy E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI (Cubby)

Related Resources Order Documents NLM Catalog NLM Gateway TOXNET Consumer Health Clinical Alerts ClinicalTrials.gov PubMed Central Hepatitis C virus antibody prevalence among human immunodeficiency virus-1-infected individuals: analysis with different

test systems.

Nubling CM, von Wangenheim G, Staszewski S, Lower J.

Paul-Ehrlich-Institut, Langen, Germany.

Sera of 383 human immunodeficiency virus (HIV)-1-infected individuals from Frankfurt (Main)/Germany were assayed by two hepatitis C virus (HCV) screening tests (Abbott second generation, Ortho second generation). This population showed a prevalence for reactivity with both tests of 20.8% (80/383). Examination of all reactive sera (91/383) by a supplemental assay (Chiron RIBA 2) gave for 46 sera a positive, for 33 sera an indeterminate, and for 12 sera a negative result. Further analysis focussed on these RIBA 2-indeterminate and -negative samples. Analysis of the sera using an in-house Western blot with three different Escherichia coliexpressed HCV proteins revealed that none of the RIBA 2-negative, but 24 of the 33 RIBA 2-indeterminate sera, including 3 of 4 c33c (NS3)-reactive samples, were reactive with a recombinant core protein. Twenty-one of 22 c22-3 (core) indeterminates stained the core antigen in the in-house Western blot and 3 of them in addition a NS5 moiety. HCV-polymerase chain reaction (PCR) was positive for 14 of the 24 RIBA 2-indeterminate sera, but for none of the RIBA 2-negative or Western blot nonreactive samples. Discrepant results between the two screening tests could not be explained by differences in the antigen compositions (i.e., a NS3-NS4 moiety of 111 amino acids present in the Ortho enzyme-linked immunosorbent assay (ELISA), not present in the Abbott or RIBA 2 assays).

PMID: 7798885 [PubMed - indexed for MEDLINE]

Display	Abstract	Show	, 20	∇	Sort by	∇	Send to	1, 44, 57, 52, 54, 1

Write to the Help Desk

NCBI | NLM | NIH

Department of Health & Human Services

Privacy Statement | Freedom of Information Act | Disclaimer

```
=> "solid phase"
      125518 "SOLID PHASE"
=> Immunoassay
L2 128306 IMMUNOASSAY
=> ELISA
L3 132860 ELISA
=> L1 and L2
      7941 L1 AND L2
=> L1 and 13
         4087 L1 AND L3
=> HCV (w) antigen
         451 HCV (W) ANTIGEN
=> conjugated
     122341 CONJUGATED
=> L6 and L7
          10 L6 AND L7
=> L6 and L4
         10 L6 AND L4
=> L6 and L5
      0 L6 AND L5
=> coated (s) antigen (w) particle
L11 8 COATED (S) ANTIGEN (W) PARTICLE
=> HCV and L11
          0 HCV AND L11
=> L1 and L6
L13 17 L1 AND L6
=> "polystyrene latex "
L14 4872 "POLYSTYRENE LATEX "
=> L14 and L6
       1 L14 AND L6
=> "copolymer latex"
L16 6182 "COPOLYMER LATEX"
=> L6 and L16
      0 L6 AND L16
L17
=> erythrocyte and L6
          3 ERYTHROCYTE AND L6
L18
=> gelatine (w) particle
    3 GELATINE (W) PARTICLE
=> L3 and L6
         79 L3 AND L6
L20
=> L19 and L6
            0 L19 AND L6
```

=> L20 and HCV

L22 79 L20 AND HCV

=> L22 and L16

L23 0 L22 AND L16

=> BSA and L22

L24 0 BSA AND L22

=> ovalbumin and L22

L25 0 OVALBUMIN AND L22

=> hemocyanin and 13

L26 951 HEMOCYANIN AND L3

=> L26 and L6

L27 0 L26 AND L6

L18 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

1996:326511 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 125:8459

Reagent for assaying antibody against reduced antigen TITLE: of hepatitis C virus and method of assaying therewith

Inoue, Yuzo; Takei, Toshinori; Tokita, Susumu Dainabot Co., Ltd., Japan INVENTOR (S):

PATENT ASSIGNEE(S): PCT Int. Appl., 38 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. -----______ WO 1995-JP1634 19950817 19960229 WO 9606355 A1

W: CA, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE A2 19960308 JP 1994-216781 19940819 JP 08062219 JP 1994-216781 19940819 PRIORITY APPLN. INFO .:

A method of assaying an antibody which reacts immunol. with hepatitis C virus (HCV) antigen in a specimen, wherein an anti-reduced HCV antibody, especially an antibody against 33C antigen, is assayed more accurately with a high sensitivity. As the antigen, use is made of at least a protein antigen coded in the NS3 domain of the HCV genome or a peptide having the activity substantially equivalent to that of the above antigen, and the antigen has been so converted or preserved as to substantially hold the form of a reduced NS3-related antigen. Examples of the treatment for the conversion and preservation include preservation of the NS3-related antigen in a dried state or in an inert gas atmospheric or

the presence of a deoxygenating agent, modification of the thiol group with a reagent for protecting or modifying the same, modification of the cysteine residue by genetic recombination techniques, such as site-directed mutagenesis, to prepare a variant recombinant NS3-related antigen, preservation of the antigen in the presence of an antioxidant till just before the use thereof, treatment of the antigen with an enzyme capable of cleaving the disulfide bond (-S-S-) into thiol groups, and treatment of the antigen with a substance having a substrate affinity for the cysteine residue. In example, glutathion, dithiothreitol, and 2-mercaptoethanol were used to preserve HCV 33C or core or C100 antigen-sensitized human erythrocyte for detecting antibodies in blood serum of HCV infected patients.

```
=> "HCV diagnosis"
```

49 "HCV DIAGNOSIS"

=> "HCV detection"

L2 129 "HCV DETECTION"

=> ELISA and L1

6 ELISA AND L1

=> ELISA and L2

L4 16 ELISA AND L2

=> solid and L2

L5 4 SOLID AND L2

=> solid and L1 L6 0 SOLID AND L1

=> "synthistic antigen" and L1

0 "SYNTHISTIC ANTIGEN" AND L1

=> synthetic (w) antigen and L2

O SYNTHETIC (W) ANTIGEN AND L2

=> carrier and l1

1 CARRIER AND L1

=> carrier and L2

2 CARRIER AND L2

=> D L10 IBIB ABS 1-2

L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:293595 CAPLUS

DOCUMENT NUMBER:

120:293595

TITLE:

Thio group-containing antigen or peptide treated with

reducing agent for antibody determination

INVENTOR (5):

Takei, Toshinori; Inoe, Juzo; Asahina, Aki; Tokita,

Susumu

PATENT ASSIGNEE(S):

Dainabot Co Ltd, Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 06074956 A2 19940318 JP 1992-270684 19920828

JP 3225468
PRIORITY APPLN. INFO.:

B2 20011105

JP 1992-270684

19920828

AB A reducing agent is used for preventing oxidation of (immobilized) thio group-containing antigen or peptide. The (immobilized) thio group-containing antigen or peptide is used as a test reagent for antibody determination In a sep.

experiment, erythrocyte-immobilized hepatitis C virus (HCV) antigen was treated with DTT, 2-mercaptoethanol, or glutathione and used for determining antibody to HCV core antigen, NS3, or NS4 protein, resp.

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:743751 CAPLUS

DOCUMENT NUMBER:

128:47287

TITLE:

C type hepatitis virus disease diagnostic agent

Takahama, Yoichi; Shiraishi, Junichi 1 INVENTOR (S): Toa Medical Electronics Co., Ltd., Japan

PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 8 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DA	TE

JP 09297141	A2	19971118	JP 1996-112442 19	960507
US 6379886	B1	20020430	US 1997-850328 19	970502
EP 806669	A2	19971112	EP 1997-107368 19	970505
EP 806669	A3	19971126		
BP 806669	B1	20020410		
R: BE, DE,	FR, GB	, IT		
CN 1170875	A	19980121	CN 1997-109798 19	970506
US 2002081630	A1	20020627	US 2001-28172 20	011221
PRIORITY APPLN. INFO.	:	•	JP 1996-112442 A 19	960507
			US 1997-850328 A1 19	970502

AB Hepatitis C virus antigen or carrier protein conjugate is coated on a solid support and used for detecting anti-hepatitis C virus antibody and for diagnosing HCV infection. The HCV antigen is core antigen, NS3 antigen, NS4 antigen, or NS5 antigen, and the carrier protein is bovine serum albumin, egg white albumin or hemocyanin.

When y

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:743751 CAPLUS

DOCUMENT NUMBER: 128:47287

TITLE: C type hepatitis virus disease diagnostic agent

INVENTOR(S): Takahama, Yoichi; Shiraishi, Junichi

PATENT ASSIGNEE(S): Toa Medical Electronics Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
JP 09297141	A2	19971118	JP 1996-112442 19960507
US 6379886	B1	20020430	US 1997-850328 19970502
EP 806669	A2	19971112	EP 1997-107368 19970505
EP 806669	A3	19971126	
EP 806669	B1	20020410	
R: BE, DE,	FR, GB	, IT	
CN 1170875	À	19980121	CN 1997-109798 19970506
US 2002081630	A1	20020627	US 2001-28172 20011221
PRIORITY APPLN. INFO.	:		JP 1996-112442 A 19960507
Thronger in the same	. •		US 1997-850328 A1 19970502

AB Hepatitis C virus antigen or carrier protein conjugate is coated on a solid support and used for detecting anti-hepatitis C virus antibody and for diagnosing HCV infection. The HCV antigen is core antigen, NS3 antigen, NS4 antigen, or NS5 antigen, and the carrier protein is bovine serum albumin, egg white albumin or hemocyanin.

L13 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1992:5185 CAPLUS

DOCUMENT NUMBER:

116:5185

TITLE:

Peptides and their use in detecting antibodies to

hepatitis C virus (HCV)

INVENTOR(S):

Arima, Terukatsu; Namba, Toshihiko; Tsuji, Masao

PATENT ASSIGNEE(S):

Kuraray Co., Ltd., Japan Eur. Pat. Appl., 63 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 445801	A2	19910911	EP 1991-103471	19910307
EP 445801	A3	19920701		
R: AT, BE,	CH, DE	, ES, FR,	GB, GR, IT, LI, LU, NL,	SE
JP 05262792	A2	19931012	JP 1991-68007	19910307
JP 3241057	B2	20011225		
JP 2002167395	A2	20020611	JP 2001-262321	19910307
JP 2003064098	A2	20030305	JP 2002-180856	19910307
US 5247067	A	19930921	US 1991-666719	19910308
PRIORITY APPLN. INFO	. :		JP 1990-58700 A	19900308
			JP 1990-67439 A	19900316
			JP 1990-80100 A	19900327
			JP 1990-296899 A	19901031
			JP 1991-68007 A3	19910307
			JP 2001-262321 A3	19910307

AB Peptides binding antibodies specific to HCV antigen are presented. These peptides are useful for anti-HCV antibody assays. Peptide Lys-Asp-Arg-Thr-Gln-Gln-Arg-Lys-Thr-Lys-Arg-Ser-Thr-Asn-Arg-Arg-Arg-Ser-Lys-Asn-Gly-Lys-Lys-Lys-Lys, prepared by solid-phase synthesis method, was used in an enzyme immunoassay of antibodies to HCV in blood serum samples.

L13 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:21470 CAPLUS

DOCUMENT NUMBER: 116:21470

TITLE: Synthetic peptide and reagent for analysis of HCV

(hepatitis C virus) antibodies using the same

INVENTOR(S): Hayashi, Nakanobu; Hashimoto, Masakatsu

PATENT ASSIGNEE(S): Shima Kenkyusho Y. K., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent Language: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 03190898 A2 19910820 JP 1989-329746 19891221

PRIORITY APPLIA INFO. JP 1989-329746 19891221

JP 1989-329746 19891221 PRIORITY APPLN. INFO.: A peptide having the common antigen determinant with HCV virus, i.e. H-Ile-Ile-Pro-Asp-Arg-Glu-Val-Leu-Tyr-Arg-Glu-Phe-Asp-Glu-Met-Glu-Glu-Cys-Ser-Gln-His-Leu-Pro-Tyr-Ile-Glu-Gln-Gly-Met-Met-Leu-Ala-Glu-Gln-Phe-Lys-Gln-Lys-Ala-Leu-Gly-Leu-OH (I), is prepared by the solid phase method on Fmoc- or BOC-Leu-bound resin (Fmoc = 9H-fluoren-9-ylmethoxycarbonyl, BOC = Me3CO2C) using Fmoc-protected amino acids. A reagent for analyzing HCV antibodies by the latex agglutination turbidimetry or light scattering photometry comprises (A), a solid reagent (i.e. I immobilized through phys. absorption or chemical through spacers on a solid support such as a microtiter reaction plate, beads, a sheet, a porous membrane, or magnetic latex, more preferably (high-d.) latex particles, immobilized erythrocyte, gelatin particles, or immobilized bacteria) and (B) human globulin antibodies (e.g. human IgG or anti-human IgM) labeled with a radioisotope, enzyme, biotin, fluorescent dye, or Eu chelate or (C) a similarly labeled I. I of high purity can be prepared in large quantity at lower cost than the conventional HCV-derived antigen and is easily immobilized on the support and the immobilized I shows good reaction with the HCV antibodies of HCV patients with high sensitivity and specificity.

L13 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1992:214922 CAPLUS

DOCUMENT NUMBER:

INVENTOR (S):

116:214922

TITLE:

Preparation of peptides and their use for

determination of antibodies specific to hepatitis

non-A/non-B virus-related antigens

Arima, Terumasa; Yamada, Kiyoko; Hatanaka, Tadashi;

Nanba, Toshihiko; Tsuji, Masao

PATENT ASSIGNEE(S):

Kuraray Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. _____ JP 03284696 A2 19911216 JP 1990-85566 19900329

JP 1990-85566 19900329 PRIORITY APPLN. INFO.: H-Glu-Gln-Asp-Gln-Ile-Lys-Thr-Lys-Asp-Arg-Thr-Gln-Gln-Arg-Lys-Thr-Lys-Arg-Ser-Thr-Asn-Arg-Arg-Arg-Ser-Lys-Asn-Glu-Lys-Lys-Lys-Lys-OH (I) or its peptide fragments having Lys-Arg-Ser-Thr-Asn (II) which specifically bind to antibodies against hepatitis non-A/non-B virus-related antigens (HCV antigens), are prepared as reagents for determination of anti-HCV antibodies with high sensitivity. Thus, I was prepared by the solid phase method on a BOC-Lys(Cl-Z)-bound resin (Cl-Z = f-ceC6H4CH2O2C) using a peptide synthesizer model 431A (Applied Biosystems, Inc.). An enzyme immunoassay using I and 2 other peptides having the fragment II identified 93.3-96.7% the presence of anti-HCV antibodies in 30 serum samples vs. 20% when peptides without the fragment II were used.

L13 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:640742 CAPLUS

DOCUMENT NUMBER: 130:50993

TITLE: Synthetic peptides as additional agents for detecting

antibodies to hepatitis C virus

AUTHOR(S): Semiletov, Yu. A.; Firsova, T. V.; Kruglov, I. V.;

Alekseenkova, T. I.; Petrakova, N. V.; Kalinina, T.

I.; Shebnev, V. A.

CORPORATE SOURCE: Inst. Virusol. im. Ivanovskogo, RAMN, Moscow, Russia

SOURCE: Voprosy Virusologii (1998), 43(3), 107-109

CODEN: VVIRAT; ISSN: 0507-4088

PUBLISHER: Meditsina
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB Peptide fragments of hepatitis C virus (HCV) nonstructural protein NS4 capable of reacting with anti-HCV in enzyme immunoassay were synthesized.

Addition of synthetic peptides to recombinant nucleocapsid HCV

antigen adsorbed on solid phase notably

improved the efficacy of detection of antibodies to HCV in the sera of

patients with hepatitis C.

L13 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:282632 CAPLUS

DOCUMENT NUMBER: 126:329228

TITLE: Human monoclonal recombinant Fabs specific for

HCV antigens obtained by repertoire

cloning in phage display combinatorial vectors

AUTHOR(S): Plaisant, P.; Burioni, R.; Manzin, A.; Solforosi, L.;

Candela, M.; Gabrielli, A.; Fadda, G.; Clementi, M. Instituto di Microbiologia, Facolta di Medicina,

Universita Cattolica del Sacro Cuore, Rome, 00168,

Italy

SOURCE: Research in Virology (1997), 148(2), 165-169

CODEN: RESVEY: ISSN: 0923-2516

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

CORPORATE SOURCE:

Mol. cloning of the antibody repertoire in phage display combinatorial vectors is a powerful method enabling the dissection of the immune response against a given pathogen. Here, the authors describe the construction of a combinatorial library displayed on phage surface, containing the antibody repertoire of a patient with high serol. response against hepatitis C virus (HCV) antigens. Following selection of the library against solid-phase-bound antigen, 16

human antibody Fab fragments able to bind to HCV-specific antigens were generated and studied for binding characteristics. The majority of them appeared to have specificity for the HCV c33 peptide. All the clones reacting with the c33 peptide shared the same heavy-chain CDR3 sequence. This is the first report of mol. cloning in a combinatorial phage display vector of the antibody repertoire of an anti-HCV-pos. patient.

L13 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:447345 CAPLUS

DOCUMENT NUMBER: 119:47345

TITLE: Hepatitis C virus (HCV) assay and kit using

HCV antigen epitope-containing

polypeptides

Lesniewski, Richard R.; Leung, Tat K.

PATENT ASSIGNEE(S): Abbott Laboratories, USA SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

INVENTOR(S):

PATENT INFORMATION:

PA'	TENT	NO.		KI	ND	DATE			1	API	PLIC	ITAC	ON NO	٥.	DATE		
MO	9306	247		A:	1	1993	0401		1	WO	199	2-U	S781	3	1992	0916	
	W:	ΑU,	CA,	JP,	KR												
	RW:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB	, (SR,	IE,	IT,	LU,	MC,	NL,	SE
AU	9226	794		A:	ì	1993	0427		2	ΑU	199	2-2	6794		1992	0916	
JP	0651	0861		T	2	1994	1201			JР	199	2-5	0618	3	1992	0916	
EP	6426	66		A:	l	1995	0315		1	ΕP	199	12-9	2085	3	1992	0916	
EP	6426																
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB	, 0	R,	IT,	LI,	NL,	SE		
AT	1917	92		E		2000	0415		- 2	AΤ	199	2-9	2085	3	1992	0916	
ES	2145	746		T:	3	2000	0716]	ES	199	2-9	20853	3	1992	0916	
	3219																
US	6596	476		B:	l	2003	0722		1	US	199	7-9	05054	1	1997	0801	
PRIORIT	Y APP	LN.	INFO.	:					US :	199	1-7	602	92	A	1991	0916	
•									US :	198	9-4	561	62	B2	1989	1222	
									US :	199	0-6	101	80	B2	1990	1107	
		•							WO :	199	2 - U	JS78	13	A	1992	0916	
									US :	199	4-1	832	07	Bl	1994	0118	
				•					US :	199	5-3	739	20	B1	1995	0117	
									US	199	5-5	077	40	BI	1995	0726	
		•							US :	199	6-7	073	55	Bl	1996	0904	
3 D 3700		4	:-				ina .		~~~	نہ کے 🕳	100	~~~	1100	4 4-			

AB HCV antigen epitope-containing polypeptides are used in assays (combination assays, confirmatory assays, immunodot assays, and competition assays) for identifying the presence of HCV antibodies in a fluid sample. An immunoassay kit comprises such a polypeptide, sample preparation reagent(s), and detection and signal-producing reagent(s). Peptide p1684 (HCV 1684-1750), GRVVLSGKPAIIPDREVLYREFDEMEECSQHLPYIEQGMMLAEQFKQKALG LLQTASRQAEVIAPAV, was synthesized by solid phase method on a phenylacetamidomethyl resin, and used in an immunodot assay along with some other HCV polypeptides to detect antiHCV antibodies in human blood serum samples.

L13 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:231556 CAPLUS

DOCUMENT NUMBER:

130:251206

TITLE:

Chemiluminescent immunoassay for detecting antibodies

to HCV

INVENTOR (S):

Chien, David Y.; Arcangel, Phillip; Tirell, Stephen;

Ziegler, Wanda

PATENT ASSIGNEE(S): SOURCE:

Chiron Corporation, USA PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

```
APPLICATION NO. DATE
                          KIND DATE
     PATENT NO.
                          ____
                                 _____
                                                   WO 1998-US19693 19980922
                          A1
                                 19990401
     WO 9915898
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
               DK, BE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE,
               KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
          MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                                   CA 1998-2303123 19980922
                           AA 19990401
     CA 2303123
                                 19990412
                                                    AU 1998-94979
                                                                         19980922
                           A1
     AU 9894979
                                                                        19980922
                                                   EP 1998-948398
     EP 1021719
                           Al
                                20000726
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, FI
                                                    JP 2000-513145
                                                                         19980922
                                 20011009
                           Т2
     JP 2001517797
                                                    US 1998-158301
                                                                         19980922
                           B1
                                 20020521
     US 6391540
                                 20011108
                                                    US 2001-775962
                                                                         20010202
     US 2001039009
                           A1
     US 6537745
                           B2
                                 20030325
                                                                         20030128
                                                    US 2003-354476
      US 2003170618
                           Al
                                 20030911
                                                US 1997-59703P P 19970922
PRIORITY APPLN. INFO.:
                                                                    P 19980501
                                                US 1998-83921P
                                                                     A1 19980922
                                                US 1998-158815
                                                WO 1998-US19693 W 19980922
                                                US 2001-775962
                                                                     A1 20010202
```

AB The authors disclose to assays for detecting antibodies (e.g., to hepatitis C virus) in a sample in a single incubation step. The assays employ universal solid phases and/or universal detectable markers, and facilitate the detection and differentiation of antigens from the same source or from different sources in a single test sample. In an example, rat anti-human IgG antibodies, immobilized on paramagnetic microparticles, are used to capture antibodies capable of reacting with a fusion protein of synthetic HCV antigen
MEFA-6 and superoxide dismutase. Chemiluminescent detection of captured antibodies is measured using anti-SOD antibodies conjugated with di-Me acridinium ester. The present invention includes test kits for performing the methods according to the invention.

L13 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:628723 CAPLUS

DOCUMENT NUMBER:

133:279822

TITLE:

Laser-time-resolved fluorescence spectroscopy in

immunoassays

AUTHOR (S):

Pan, Lihua; Du, Jixian; Xie, Wenbing; Du, Qingyang;

Yun. Oin

CORPORATE SOURCE:

National Analytical Research Center of Eletrochemistry and Spectroscopy, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun,

130022, Peop. Rep. China

SOURCE:

Guangpuxue Yu Guangpu Fenxi (2000), 20(3), 277-279

CODEN: GYGFED; ISSN: 1000-0593

PUBLISHER:

Beijing Daxue Chubanshe

DOCUMENT TYPE:

Journal

Chinese LANGUAGE:

This paper described a laser-excited time-resolved fluoroimmunoassay set. ΔR It made lanthanide ion to couple the anhydrde of diethylenetriaminepentaacetic acid (DTPAA) for labeling antibodies. The experiment used polystyrene tap coated with HCV antigen as the solid phase and a chelate of the rare earth metal europium as fluorescent label. A nitrogen laser beam was used to excite the Eu3+ chelates and after 60µs delay time, the emission fluorescence was measured. Background fluorescence of short lifetimes caused by serum components and Raman scattering can be eliminated by set the delay time. In the system condition, fluorescent spectra and fluorescent lifetimes of Eu3+ β -naphthoyltrifluroacetone (NTA) chelates were measured. The fluorescent lifetime value is 650 µs. The maximum emission wavelength is 613 nm. The linear range of europium ion concentration is 1x10-7- 1X10-11 g·mL-1 and the detection limit is 1x10-1g·mL-1. The relative standard deviation of determination (n= 12) for samples at 0.01 ng·mL-1 magnitude is 6.4%. Laser-TRFIA was also found to be suitable for diagnosis of HCV. The sensitivity and specificity were comparable to enzyme immunoassay. The result was obtained with . laser-TRFIA for 29 human correlated well with enzyme immunoassay.

L13 ANSWER, 2 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2003:23040 CAPLUS 138:88633

TITLE:

Methods for the simultaneous detection of HCV

antigens and HCV antibodies

INVENTOR (S):

Shah, Dinesh O.; Dawson, George A.; Muerhoff, A.

Scott; Jiang, Lily; Gutierrez, Robin A.; Leary, Thomas

P.; Desai, Suresh; Stewart, James L.

PATENT ASSIGNEE(S):

Abbott Laboratories, USA PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2003002749	A2 20030109	WO 2002-US19958	20020624
WO 2003002749	A3 20030710		
W: CA, JP RW: AT, BE,	CH, CY, DE, DK,	ES, FI, FR, GB, GR, IN	E, IT, LU, MC, NL,
PT, SE,	TR		
US 2003108858	A1 20030612	US 2001-891983	20010626
US 2003152948	A1 20030814	US 2002-173480	20020617
US 6727092	B2 20040427		
EP 1412538	A2 20040428	EP 2002-746647	20020624
R: AT, BE,	CH, DE, DK, ES,	FR, GB, GR, IT, LI, LI	J, NL, SE, MC, PT,
IE, FI,	CY, TR		
PRIORITY APPLN. INFO	.:	US 2001-891983 A	20010626
		US 2002-173480 A	20020617

WO 2002-US19958 W 20020624

The subject invention relates to methods for the simultaneous detection of Hepatitis C Virus (HCV) antigens as well as antibodies produced in response to HCV antigens. Furthermore, the subject invention allows one to detect antigens in the early, acute stage of infection, even prior to the development of antibodies, thereby allowing for early detection of infected blood and blood products, thus improving the safety of the blood supply.

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1648BQL

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
Welcome to STN International
NEWS 1
                 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2
                 "Ask CAS" for self-help around the clock
NEWS 3 FEB 28 PATDPAFULL - New display fields provide for legal status
                 data from INPADOC
NEWS 4 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 5 MAR 02 GBFULL: New full-text patent database on STN
NEWS 6 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
NEWS 11 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 12 APR 04 EPFULL enhanced with additional patent information and new
                 fields
NEWS 13 APR 04 EMBASE - Database reloaded and enhanced
NEWS 14 APR 18 New CAS Information Use Policies available online
NEWS 15 APR 25 Patent searching, including current-awareness alerts (SDIs),
                 based on application date in CA/CAplus and USPATFULL/USPAT2
                 may be affected by a change in filing date for U.S.
                 applications.
     16 APR 28
NEWS
                 Improved searching of U.S. Patent Classifications for
                 U.S. patent records in CA/CAplus
NEWS
      17 MAY 23
                 GBFULL enhanced with patent drawing images
NEWS
     18 MAY 23
                REGISTRY has been enhanced with source information from
                 CHEMCATS
                STN Patent Forums to be held in June 2005
NEWS
      19 JUN 06
NEWS
     20 JUN 06
                The Analysis Edition of STN Express with Discover!
                 (Version 8.0 for Windows) now available
NEWS 21 JUN 13 RUSSIAPAT: New full-text patent database on STN
      22 JUN 13 FRFULL enhanced with patent drawing images
NEWS
     23 JUN 20 MEDICONF to be removed from STN
NEWS
NEWS 24 JUN 27 MARPAT displays enhanced with expanded G-group definitions
                and text labels
NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
             AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
NEWS HOURS
              STN Operating Hours Plus Help Desk Availability
NEWS INTER
             General Internet Information
NEWS LOGIN
             Welcome Banner and News Items
NEWS PHONE
             Direct Dial and Telecommunication Network Access to STN
NEWS WWW
             CAS World Wide Web Site (general information)
```

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may

result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 08:31:54 ON 30 JUN 2005

=> FIL STNGUIDE

COST IN U.S. DOLLARS

ENTRY SESSION

SINCE FILE

FULL ESTIMATED COST

0.21 0.21

TOTAL

FILE 'STNGUIDE' ENTERED AT 08:32:37 ON 30 JUN 2005 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Jun 24, 2005 (20050624/UP).

=> file caplus and biosis

'AND' IS NOT A VALID FILE NAME

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL

> ENTRY SESSION

FULL ESTIMATED COST

0.06 0.27

FILE 'CAPLUS' ENTERED AT 08:33:19 ON 30 JUN 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 08:33:19 ON 30 JUN 2005 Copyright (c) 2005 The Thomson Corporation

=> antigen (1) glutaraldehyde

2050 ANTIGEN (L) GLUTARALDEHYDE

=> carrier (s) protein

29161 CARRIER (S) PROTEIN T.2

=> L1 and L2

L3 46 L1 AND L2

=> BSA and L3

6 BSA AND L3

=> HCV and L3

1 HCV AND L3

=> D L5 IBIB ABS

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:652870 CAPLUS

DOCUMENT NUMBER:

139:250375

TITLE:

Protein chip for detecting blood bank sampling-induced

infection

INVENTOR(S):

Zhang, Tao; Li, Bin; Peng, Yongji; Li, Hongmei; Ren,

Yiping

PATENT ASSIGNEE(S):

Jingtai Biological Technology Cc., Ltd., Peop. Rep.

SOURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.

CODEN: CNXXEV

DOCUMENT TYPE:

Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ ----_____ CN 1373365 Α 20021009 CN 2001-142625 20011211 PRIORITY APPLN. INFO.: CN 2001-142625 20011211

The protein chip for detecting blood bank sampling-induced infection via simultaneous detection of multiple antigens is prepared by fixing the proteins (such as anti-hepatitis B surface antigen (HBsAg) antibody, hepatitis C virus antigen (HCVAg) fragment, type I autoimmune-deficient virus antigen (ADVAg) fragment, type II ADVAg fragment, and syphilis antigen fragment), their pos. refs. (HBsAg fragment, anti-HCV surface antigen antibody fragment, anti-type I ADVAg fragment, anti-type II ADVAg fragment, and eg. reference (human serum albumin) on the glutaraldehyde-activated carrier (such as glass, cellulose acetate membrane, cellulose nitrate membrane, nylon membrane, Si sheet, steel sheet, or ceramic sheet).

=> D L4 IBIB ABS 1-4

L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:435478 CAPLUS

TITLE: Residue determination of SMD by ELISA

AUTHOR(S): Chen, Lianyi; Wang, Handong; Wang, Zongyuan

CORPORATE SOURCE: College of Animal Science and Veterinary Medicine,

Yangzhou University, Yangzhou, Jiangsu Province,

225009, Peop. Rep. China

SOURCE: Zhongguo Shouyi Xuebao (2004), 24(4), 375-378

CODEN: ZSXUF5; ISSN: 1005-4545

PUBLISHER: Zhongguo Shouyi Xuebao Bianjibu

DOCUMENT TYPE: Journal LANGUAGE: Chinese

Bovine serum albumin (BSA) and ovalbumin (OVA) were used as two protein carriers resp. to couple with semiantigen sulfamethoxydiazine (SMD) by glutaraldehyde method. complete antigens SMD-BAS and SMD-OVA were thus prepared and acted as immunoantigen and coating antigen resp. in ELISA protocol. The property of this antiserum was determined with two-direction agar diffusion test and ELISA protocol and it showed that antiserum was special to SMD. And the titer of antiserum was 1:2 560 by ELISA test. Indirect competitive ELISA (icELISA) was established with this antiserum. The most appropriate concentration and dilution of them was 50 mg/L, 1: 500 and 1 : 100 correspondingly. The standard curve of icELISA was established and the curve indicated that the lowest detection limit was 63 µg/L which was under the demanded detection limit of 100 µg/kg (EU) and 300 µg/kg (domestic). The curve had a favorable linearity relation within the concentration range of $10-2~000~\mu g/L$. The recovery ratio was 94.7%. basis of the established protocol, two hens 20 mo old were taken as practical test samples. The content of SMD in serum was obtained through this established ELISA protocol.

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:407590 CAPLUS

DOCUMENT NUMBER: 127:105280

TITLE: Immunochemical assay for recognition of

2-S-Glutathionyl acetate, a glutathione conjugate

derived from 1,1-dichloroethylene-epoxide

AUTHOR(S): Forkert, Poh-Gek; Collins, Kathy S.; Dowsley, Taylor

F.; Ross, Gregory M.

CORPORATE SOURCE: Dep. of Anatomy and Cell Biology and Departments of

Medicine and Pharmacology & Toxicology, Queen's

University, Kingston, ON, K7L 3N6, Can.

SOURCE: Journal of Pharmacology and Experimental Therapeutics

(1997), 281(3), 1422-1430

CODEN: JPETAB; ISSN: 0022-3565

PUBLISHER: Williams & Wilkins

DOCUMENT TYPE: Journal LANGUAGE: English

Our objective is to develop an antiserum against the chemical synthesized 2-S-glutathionyl acetate (GTA), and for immunization, we have used a hapten that consists of GTA conjugated to bovine serum albumin (

BSA) as the carrier protein and

glutaraldehyde (GLUT) as a chemical cross-linker. The antisera were raised in rabbits and were characterized by using the following synthesized structural analogs: GTA, glycine-GLUT-BSA (GLY-GLUT-

BSA), GTA-GLUT-ovalbumin (GTA-GLUT-OVB), GTA-1-ethyl-3-(3-

dimethylaminopropyl)carbodiimide-BSA (GTA-EDC-BSA),

TRIS-GLUT-BSA, glutathione-GLUT-BSA (GSH-GLUT-

BSA). The ELISA and slot immunoblotting were used to characterize the specificity of the antisera. Noncompetitive ELISA expts. showed that the reaction of the antiserum with the antigen was concentration-dependent. In the competitive ELISA, GTA-GLUT-BSA inhibited binding efficiently; in contrast, the unconjugated GTA did not inhibit binding to the antigen. Competitive studies with the other analogs indicated low or minimal reactivities with the antibodies, which were blocked by incubation with GLY-GLUT-BSA. However, there was residual reactivity with the antigen that was not competitively inhibited by either the GTA-EDC-BSA or the GSH-GLUT-BSA conjugates. Slot-blotting expts. confirmed the findings of the ELISA studies and revealed high specificity of the antiserum to detect the hapten. These results demonstrated the successful development of polyclonal antibodies to detect GTA and hence

ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN L4

1,1-dichloroethylene (DCE) epoxide.

ACCESSION NUMBER:

1991:406561 CAPLUS

DOCUMENT NUMBER:

115:6561

TITLE:

Antibodies against neuroactive amino acids and

neuropeptides. I. A new two-step procedure for their

conjugation to carrier proteins

and the production of an anti-met-enkephalin antibody

reactive with glutaraldehyde-fixed tissues

AUTHOR(S):

Meyer, Karl Heinz; Behringer, Dirk M.; Veh, Ruediger

CORPORATE SOURCE:

Abt. Neuroanat., Ruhr-Univ., Bochum, Germany

SOURCE:

Journal of Histochemistry and Cytochemistry (1991),

39(6), 749-60

CODEN: JHCYAS; ISSN: 0022-1554

DOCUMENT TYPE:

Journal LANGUAGE: English

A new 2-step procedure was developed to couple haptens to bovine serum albumin (BSA) via glutaraldehyde (GA). After activation of BSA with excess GA and removal of unreacted GA, the hapten was bound to the activated protein in a second step. 2-step procedure is easy to use, the desired mol. ratio of coupled hapten to protein is conveniently adjusted, and no visible precipitation of the conjugate is detected. Using a low peptide concentration, nearly 50% of the inserted haptens are bound to the protein, and unbound expensive peptide can be recovered after Sephadex chromatog. Antisera to neuroactive amino acids (GABA, glycine, and glutamate) and neuropeptides (Met-enkephalin) were prepared by immunization of rabbits with these conjugates. Immunol. anal. of immune sera by dot-blot and ELISA techniques and subsequent removal of cross-reactivities by solid-phase adsorption yielded monospecific antibodies, which were further purified by affinity chromatog. The immunocytochem. specificities of these purified antibodies were verified in adjacent sections of GA-fixed rat spinal cord. Pre-embedding staining with anti-Met-enkephalin in combination with post-embedding staining for amino acids such as GABA allowed double staining of the two antigens in a single semi-thin section.

L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:20735 CAPLUS

DOCUMENT NUMBER: 90:20735

TITLE: [Pancreatic glucagon] antigen production

INVENTOR(S): Nishino, Tomoyoshi

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

P.	ATENT NO.	KIND	DATE	APPLICATION NO.			DATE
, J	P 53099320	A2	19780830	JP	 1977-13919		19770210
J	P 58036308	B4	19830808				
B	E 863810	A1	19780529	BE	1978-185040		19780209
D:	K 7800597	Α	19780811	DK	1978-597		19780209
D)	K 157340	В	19891218				
D)	K 157340	С	19900514				
S	E 7801545	Α	19780811	SE	1978-1545		19780209
S	E 427931	В	19830524				
S	E 427931	С	19830901				
D1	E 2805663	A1	19780817	DE	1978-2805663		19780210
D1	E 2805663	B2	19800313				
D)	E 2805663	C3	19801113				
F	R 2380296	A1	19780908	FR	1978-3905		19780210
F	R 2380296	B1	19810710				•
G]	B 1580582	A	19801203	GB	1978-5388		19780210
U	S 4221777	Α	19800909	US	1978-924319		19780713
U	S 4272433	Α	19810609	US	1979-77221		19790920
PRIORI	TY APPLN. INFO.:			JP	1977-13919	Α	19770210
				US	1978-876799	A3	19780210
D. S. S. S. D. D. D. F. F. G. U.	K 157340 K 157340 E 7801545 E 427931 E 427931 E 2805663 E 2805663 E 2805663 R 2380296 R 2380296 B 1580582 S 4221777	B C A B C A1 B2 C3 A1 B1 A	19891218 19900514 19780811 19830524 19830901 19780817 19800313 19801113 19780908 19810710 19801203 19800909	SE DE FR GB US US JP	1978-1545 1978-2805663 1978-3905 1978-5388 1978-924319 1979-77221 1977-13919		19780210 19780210 19780210 19780210 19780713 19790920 19770210

AB An antigen is produced from a peptide H-(Arg)m-Ala-Glu(NH2)-Asp-Phe-Val-Glu(NH2)-Trp-Leu-Met-Asp(NH2)-Thr (I; m = 0 or 1) as a hapten, a dialdehyde OHC(CH2)nCHO (n = 1-5) as coupling agent, and a carrier protein; the antigen is used to produce an antibody having high specificity to pancreatic glucagon. Thus, 6 mg GCTR-1 (I; m =1) was dissolved in 0.2 mL 0.2N KOH, mixed with a solution containing 20 mg bovine serum albumin (BSA) in 2 mL NaOH 0.2-boric acid 0.2-KCl 0.2M buffer (pH9), and to this was added dropwise 1 mL 0.05M glutaraldehyde. The mixture (4 mL) was stirred at room temperature for 24 h, mixed with an equal volume of 2% Na dodecyl sulfate, heated to dissolve precipitate, and fractionated by column chromatog. on Sephadex G-75. Fraction I (GCTR-1-BSA complex) was collected, dialyzed, and freeze-dried to obtain 17.3 mg GCTR-1-BSA complex. The complex (7 mg) was dissolved in 1.8 mL physiol. saline, and mixed with 2.7 mL Freund's adjuvant. The mixture (1 mL) was injected s.c. into a rabbit and a booster injection was administered 2 wk later. Thereafter, the rabbit was injected every other wk with 1 mL solution containing 3 mg of the antigen and 3 mL each of physiol. saline and Freund's adjuvant for 3.5 mo. Antiserum was collected from the rabbit 10 days after the final injection. The antiserum had high specificity to pancreatic glucagon, but not to glucagon-like substances of different origins.

```
=> cross (s) link
```

L6 16537 CROSS (S) LINK

=> L1 and L6

L7 4 L1 AND L6

=> D L7 IBIB ABS 1-4

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:293678 CAPLUS

DOCUMENT NUMBER: 140:301961

TITLE: Breast cancer antigen immunosensor based on the

functional sol-gel film

AUTHOR(S): Liang, Ru-Ping; Qiu, Jian-Ding; Zou, Xiao-Yong; Cai,

Pei-Xiang

CORPORATE SOURCE: Sch. Chem. Chem. Eng., Zhongshan Univ., Guangzhou,

510275, Peop. Rep. China

SOURCE: Gaodeng Xuexiao Huaxue Xuebao (2004), 25(3), 425-429

CODEN: KTHPDM; ISSN: 0251-0790

PUBLISHER: Gaodeng Jiaoyu Chubanshe

DOCUMENT TYPE: Journal LANGUAGE: Chinese

A new type of non-labeled immunosensor for the determination of breast cancer antigen (CA15-3) was made by combining sol-gel with cross

-link techniques and utilizing glutaraldehyde (GA) to

link CA15-3 antibody (Ab) on the functional sol-gel film, so the sol-gel/GA/Ab layer was immobilized on the surface of platinum disk electrode. IR spectrum (IR) and cyclic voltammetry (CV) were employed to investigate the structure and the electrochem. characteristics of the immunosensor, resp. The linearity of CA15-3 in the range of 8-240 U/mL with a detection limit of 5 U/mL and the correlation coefficient of 0.:998 are obtained. The exptl. results show that the activity of the immobilized CA15-3 antibody is maintained better by this method, and the stability of the immnunosensor is improved. The dependences of the, potential response on pH, incubation time, sensitivity and reproducibility were studied, and the stability of the sensor was also evaluated. The immunosensor was stable for about 30 days when stored in a dry state at 4° .

Satisfactory determination results of CA15-3 in serum samples were obtained by this method.

ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1973:109103 CAPLUS

DOCUMENT NUMBER: 78:109103

TITLE: Antibody enzyme conjugates. Preparation of

intermolecular conjugates of horseradish peroxidase and antibody and their use in immunohistology of renal

cortex

AUTHOR(S): Clyne, David H.; Norris, Stephen H.; Modesto, Rosario,

R.; Pesce, Amadeo J.; Pollak, Victor E.

CORPORATE SOURCE:

SOURCE:

Med. Cent., Michael Reese Hosp., Chicago, IL, USA Journal of Histochemistry and Cytochemistry (1973),

21(3), 229-36

CODEN: JHCYAS; ISSN: 0022-1554

DOCUMENT TYPE: Journal LANGUAGE: English

The studies reported were done with the objectives of preparing peroxidase-labeled antibody conjugates and of testing their usefulness for the detection of soluble and insol. tissue antigens.

Glutaraldehyde, toluene diisocyanate, and N,N'dicyclohexylcarbodiimide were used to cross-link

horseradish peroxidase to goat antirabbit immunoglobulin G. The resulting conjugates were characterized by mol. size and enzymic and immunol. activity. They were then tested for their properties as immunohistol. reagents using 0.5- μ sections of freeze-substituted paraffin-embedded renal cortical tissue. Excellent results were obtained with a highly polymerized conjugate made with glutaraldehyde and with an unpolymd. conjugate made with toluene diisocyanate. With the use of these

conjugates tissue localization of both soluble and insol. antigens was achieved after subsequent fixation of tissue and counterstaining with periodic acid-Schiff-hematoxylin.

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1969:66297 CAPLUS

DOCUMENT NUMBER: 70:66297

TITLE: Antigenicity of formaldehyde- and glutaraldehydetreated bovine serum albumin and ovalbumin-bovine serum albumin conjugate AUTHOR(S): Habeeb, A. F. S. A.

CORPORATE SOURCE: St. Jude Child. Res. Hosp., Memphis, TN, USA SOURCE: Journal of Immunology (1969), 102(2), 457-65

CODEN: JOIMA3; ISSN: 0022-1767

DOCUMENT TYPE: Journal LANGUAGE: English

AB Chemical conformational, and antigenic studies of bovine serum albumin (BSA) treated with H2CO or glutaraldehyde, as well as of a conjugate formed by intermol. cross-linking of ovalbumin (OA) to BSA, were undertaken. H2CO reacted predominantly with the free amino groups and caused intramol. cross-links, with no apparent change in the shape or antigenicity of the mol. Glutaraldehyde caused intermol. cross-linkages which formed soluble aggregates; such modified proteins were antigenic in rabbits and produced antibodies with 2 specificities, one directed against antigenic determinants on BSA and the other against newly acquired groups arising from the modification. Anti-OA-BSA conjugated contained antibodies against antigenic determinants of BSA, OA, and glutaraldehyde-treated BSA and OA.

7 ANSWER 4 OF 4 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2000:172673 BIOSIS DOCUMENT NUMBER: PREV200000172673

TITLE: Fixative-dependent increase in immunogold labeling

following antigen retrieval on acrylic and epoxy sections.

AUTHOR(S): Brorson, Sverre-Henning [Reprint author]

CORPORATE SOURCE: Department of Pathology, Ulleval Hospital, Kirkeveien 166,

0407, Oslo, Norway

SOURCE: Biotechnic and Histochemistry, (Sept., 1999) Vol. 74, No.

5, pp. 248-260. print.

CODEN: BIHIEU. ISSN: 1052-0295.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 3 May 2000

Last Updated on STN: 4 Jan 2002

AB We examined the increase in immunogold labeling of variably fixed, resin embedded tissue sections following antigen retrieval by heating in citrate solution. Fibrin clots and porcine renal tissue were fixed in glutaraldehyde, paraformaldehyde or ethanol, and specimens were embedded in LR-White or epoxy resin. Immunogold labeling was performed on ultrathin sections with anti-fibrinogen for the fibrin clots and anti-IgG for the porcine renal tissue. Immunogold labeling increased greatly after heating epoxy sections regardless of the fixative used. The ratio labelingretrieved/labelingnonretrieved (Lr/Ln) was 2.8 or higher, and the largest increases were obtained for anti-IgG. Heating induced a large increase of immunolabeling for LR-White sections only when the specimens had been fixed in paraformaldehyde (Lr/Ln = 2.2 for anti-IgG and 1.4 for antifibrinogen). LR-White sections showed decreased, insignificant or weakly increased immunolabeling of ethanol or glutaraldehyde fixed tissues following antigen retrieval. Disruption of aldehyde cross-links is not the only mechanism for antigen retrieval when epoxy sections are heated in citrate solution since large increases in immunolabeling were obtained on ethanol fixed tissue. The large heat-induced increases in immunolabeling on epoxy sections are probably caused by the disruption of chemical bonds between the epoxy resin and side groups of proteins.

=> BSA L8 25629 BSA => cross (w) link

L9 15841 CROSS (W) LINK

=> antigen

L10 733101 ANTIGEN

=> L8 and L9 L11 52 L8 AND L9

=> 110 and L11

L12 5 L10 AND L11

=> D L12 IBIB ABS 1-5

L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:61925 CAPLUS

DOCUMENT NUMBER: 139:47067

TITLE: Gene expression profiling of Ca2+-ATPase inhibitor

DTBHQ and antigen-stimulated RBL-2H3 mast

cells

AUTHOR(S): Nakamura, R.; Ishida, S.; Ozawa, S.; Saito, Y.;

Okunuki, H.; Teshima, R.; Sawada, J.

CORPORATE SOURCE: Division of Biochemistry and Immunochemistry, National

Institute of Health Sciences, Tokyo, 158-8501, Japan

SOURCE: Inflammation Research (2002), 51(12), 611-618

CODEN: INREFB; ISSN: 1023-3830

PUBLISHER: Birkhaeuser Verlag

DOCUMENT TYPE: Journal LANGUAGE: English

Objective and Design: Ca2+ signaling is critical for mast cell activation by antigen stimulation, and we previously described that the signaling can be mimicked by Ca2+-ATPase inhibitors. We therefore investigated the effect of the Ca2+-ATPase inhibitor and antigen stimulation on the gene expression profiles of RBL-2H3 mast cells. Material: A Ca2+-ATPase inhibitor, 2,5-di(tert-butyl)-1,4-hydroquinone (DTBHQ), an antigen (dinitrophenylated BSA), a high-d. oligonucleotide microarray (Affymetrix GeneChip) technique, and a well-characterized rat mast cell line RBL-2H3 were used. Treatment: RBL-2H3 cells were activated for 3 h with 10 μM DTBHQ, which increases cytosolic Ca2+ concentration, or 10 µg/mL antigen, which cross-links IgE receptors, and the mRNA expression profiles (8,799 genes) were analyzed with GeneChip arrays (n = 3). Methods: Expression levels were measured by GeneChip, and the differences were tested by Welch's t-test and P-values less than 0.05 were considered statistically significant. Values are expressed as means \pm SEM. Results: The genes, including MCP-1, GADD45, Relaxin H1, CSF-1, c-jun-oncogene, Pyk-2, NKR-P2 and CREM, were significantly up-regulated by both DTBHQ and antigen stimuli, whereas the genes including interleukin (IL)-3, IL-4, IL-9, IL-13, GADD153, butyrate response factor, and Fas ligand, were up-regulated by DTBHQ alone. On the other hand, the expression of several genes, including GATA-1, were down-regulated by DTBHQ stimulation. Conclusions: These results suggest (1) that DTBHQ seems to induce proinflammatory responses by stimulating the production of several cytokines through the expression of several transcription factors, (2) that the changes in gene expression profile induced by DTBHQ and by IgE receptor crosslinking in mast cells were almost the same, but many more stress-inducible genes like GADD153 were up-regulated by the former. REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:211495 CAPLUS

DOCUMENT NUMBER: 128:320276

TITLE: Kinetics of multivalent antigen DNP-

BSA binding to IgE-FceRI in

relationship to the stimulated tyrosine

phosphorylation of FceRI

AUTHOR(S): Xu, Keli; Goldstein, Byron; Holowka, David; Baird,

Barbara

CORPORATE SOURCE: Department Chemistry, Baker Laboratory, Cornell

University, Ithaca, NY, 14853, USA

SOURCE: Journal of Immunology (1998), 160(7), 3225-3235

CODEN: JOIMA3; ISSN: 0022-1767

PUBLISHER: American Association of Immunologists

DOCUMENT TYPE: Journal LANGUAGE: English

AB Multivalent DNP-BSA is commonly used to cross-

link anti-DNP IgE bound to FceRI to stimulate cellular responses, although key features of the binding process are unknown.

Fluorescence quenching can be used to study the kinetics of DNP-

BSA binding to FITC-IgE. The authors observe that DNP-BSA

binds more slowly to IgE than does an equimolar amount of a monovalent DNP

ligand, suggesting that the average effective number of DNP groups per BSA is less than one. The binding data are well described by a

transient hapten exposure model in which most of the DNP groups are unavailable for binding but have some probability of becoming exposed and

available for binding during the time of the binding measurement. Addnl. expts. indicate that, for suboptimal to optimal concns. of DNP-BSA, most of the FITC fluorescence quenching on the cell surface is due to

crosslinking events. With these concns. at 15°, the kinetics of

FITC fluorescence quenching by DNP-BSA correlates with the kinetics of DNP-BSA-stimulated tyrosine phosphorylation of FceRI. At 35°, the phosphorylation kinetics are biphasic

during the time period in which crosslinking continues to increase. The results establish a quant. relation between the time-course for

crosslinking by multivalent Ag and FceRI-medicated signaling, and they provide the means to predict the kinetics of crosslinking under a

wide variety of conditions.
REFERENCE COUNT: 37 TH

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1969:66297 CAPLUS

DOCUMENT NUMBER: 70:66297

TITLE: Antigenicity of formaldehyde- and glutaraldehyde-

treated bovine serum albumin and ovalbumin-bovine

serum albumin conjugate

AUTHOR(S): Habeeb, A. F. S. A.

CORPORATE SOURCE: St. Jude Child. Res. Hosp., Memphis, TN, USA SOURCE: Journal of Immunology (1969), 102(2), 457-65

CODEN: JOIMA3; ISSN: 0022-1767

DOCUMENT TYPE: Journal LANGUAGE: English

AB Chemical conformational, and antigenic studies of bovine serum albumin (

BSA) treated with H2CO or glutaraldehyde, as well as of a conjugate formed by intermol. cross-linking of ovalbumin (OA) to

BSA, were undertaken. H2CO reacted predominantly with the free amino groups and caused intramol. cross-links, with no

amino groups and caused intramol. cross-links, with no apparent change in the shape or antigenicity of the mol. Glutaraldehyde caused intermol. cross-linkages which formed soluble aggregates; such modified proteins were antigenic in rabbits and produced antibodies with 2 specificities, one directed against antigenic determinants on BSA

and the other against newly acquired groups arising from the modification. Anti-OA-BSA conjugated contained antibodies against antigenic determinants of BSA, OA, and glutaraldehyde-treated BSA

and OA.

L12 ANSWER 4 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2004:99138 BIOSIS DOCUMENT NUMBER: PREV200400097439

TITLE: Highly effective poly(ethylene glycol) architectures for

specific inhibition of immune receptor activation.

AUTHOR(S): Baird, Emily J.; Holowka, David; Coates, Geoffrey W. [Reprint Author]; Baird, Barbara [Reprint Author]

CORPORATE SOURCE: Department of Chemistry and Chemical Biology, Cornell

University, Ithaca, NY, 14853-1301, USA

gc39@cornell.edu; bab13@cornell.edu

SOURCE: Biochemistry, (November 11 2003) Vol. 42, No. 44, pp.

12739-12748. print.

ISSN: 0006-2960 (ISSN print).

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 18 Feb 2004

Last Updated on STN: 18 Feb 2004

AB Architectural features of synthetic ligands were systematically varied to optimize inhibition of mast cell degranulation initiated by multivalent crossing of IgE-receptor complexes. A series of ligands were generated by end-capping poly(ethylene glycol) (PEG) polymers and amine-based dendrimers with the hapten 2,4-dinitrophenyl (DNP). These were used to explore the influence of polymeric backbone length, valency, and hapten presentation on binding to anti-DNP IgE and inhibition of stimulated activation of RBL cells. Monovalent MPEG5000-DNP (IC50=50 nM), bivalent DNP-PEG3350-DNP (IC50=8 nM), bismonovalent MPEG5000-DNP2 (IC50=20 nM), bisbivalent DNP2-PEG3350-DNP2 (IC50=3nM) and DNP4-dendrimer ligands (IC50=50 nM) all effectively inhibit cellular activation caused by multivalent antigen, DNP-bovine serum albumin. For different DNP ligands, we provide evidence for more effective inhibition due to (i) preferential formation of intra-IgE cross-links by bivalent ligands of sufficient length, (ii) self-association of monovalent ligands with longer tails, and (iii) higher probability of binding for bisvalent ligands. We also show that larger DNP16-dendrimers of higher valency trigger degranulation by cross-linking IgE-receptor complexes, whereas smaller DNP-dendrimers are inhibitory. Thus, features of synthetic ligands can be manipulated to control receptor occupation, aggregation, and inhibition of the cellular response.

L12 ANSWER 5 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2003:149546 BIOSIS DOCUMENT NUMBER: PREV200300149546

TITLE: Gene expression profiling of Ca2+-ATPase inhibitor DTBHQ

and antigen-stimulated RBL-2H3 mast cells.

AUTHOR(S): Nakamura, R.; Ishida, S.; Ozawa, S.; Saito, Y.; Okunuki,

H.; Teshima, R. [Reprint Author]; Sawada, J.

CORPORATE SOURCE: Division of Biochemistry and Immunochemistry, National

Institute of Health Sciences, Kamiyoga 1-18-1, Setagaya-ku,

Tokyo, 158-8501, Japan rteshima@nihs.go.jp

SOURCE: Inflammation Research, (December 2002) Vol. 51, No. 12, pp.

611-618. print. ISSN: 1023-3830.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 19 Mar 2003

Last Updated on STN: 19 Mar 2003

Objective and Design: Ca2+ signaling is critical for mast cell activation AB by antigen stimulation, and we previously described that the signaling can be mimicked by Ca2+-ATPase inhibitors. We therefore investigated the effect of the Ca2+-ATPase inhibitor and antigen stimulation on the gene expression profiles of RBL-2H3 mast cells. Material: A Ca2+-ATPase inhibitor, 2,5-di(tert-butyl)-1,4-hydroquinone (DTBHQ), an antigen (dinitrophenylated BSA), a high-density oligonucleotide microarray (Affymetrix GeneChip) technique, and a well-characterized rat mast cell line RBL-2H3 were used. Treatment: RBL-2H3 cells were activated for 3 h with 10 muM DTBHQ, which increases cytosolic Ca2+ concentration, or 10 mug/ml antigen, which cross-links IgE receptors, and the mRNA expression profiles (8,799 genes) were analyzed with GeneChip arrays (n = 3). Methods: Expression levels were measured by GeneChip, and the differences were tested by Welch's t-test and P-values less than 0.05 were considered statistically significant. Values are expressed as means +- SEM. Results: The genes, including MCP-1, GADD45, Relaxin H1, CSF-1, c-jun-oncogene, Pyk-2, NKR-P2 and CREM, were significantly up-regulated by both DTBHQ and antigen stimuli, whereas the genes including interleukin (IL)-3, IL-4, IL-9, IL-13, GADD153, butyrate response factor, and Fas ligand, were up-regulated by DTBHQ alone. On the other hand, the expression of several genes, including GATA-1, were down-regulated by DTBHQ stimulation. Conclusions: These results suggest 1) that DTBHQ seems

to induce proinflammatory responses by stimulating the production of several cytokines through the expression of several transcription factors. 2) that the changes in gene expression profile induced by DTBHQ and by IqE receptor crosslinking in mast cells were almost the same, but many more stress-inducible genes like GADD153 were up-regulated by the former.

=> carrier (w) protein 13942 CARRIER (W) PROTEIN L13 => L13 and L10 1620 L13 AND L10 => conjugate and L14 624 CONJUGATE AND L14 => HCV and L15 L16 2 HCV AND L15 => L1 L17 2050 L1 => L2 L18 29161 L2 => L15 and L1 12 L15 AND L1 => L15 and L2 624 L15 AND L2 L20 => L3 and HCV L21 1 L3 AND HCV

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:652870 CAPLUS

DOCUMENT NUMBER: 139:250375

TITLE: Protein chip for detecting blood bank sampling-induced

infection

INVENTOR(S): Zhang, Tao; Li, Bin; Peng, Yongji; Li, Hongmei; Ren,

Yiping

PATENT ASSIGNEE(S): Jingtai Biological Technology Co., Ltd., Peop. Rep.

China

KIND

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp.

CODEN: CNXXEV

DATE

DOCUMENT TYPE:

=> D L21 IBIB ABS

Patent LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

	CN 1373365	Α	20021009	CN 2001-142625	20011211
PRIO	RITY APPLN. INFO.:			CN 2001-142625	20011211
AB	The protein chip for	detec	ting blood b	ank sampling-induced	
	infection via simult	aneous	detection o	f multiple antigens i	İs
	prepared by fixing t	he pro	teins (such	as anti-hepatitīs B s	surface
	antigen (HBsAg) anti				
	(HCVAg) fragment, ty	mpe I a	utoimmune-de	ficient virus <mark>antige</mark> r	1
	(ADVAg) fragment, ty	pe II	ADVAg fragme:	nt, and syphilis ant i	igen
	fragment), their pos	. refs	. (HBsAg fra	gment, anti- HCV surfa	ace
	antigen antibody fra	gment,	anti-type I	ADVAg fragment, anti	i-type
	II ADVAg fragment, a	ind ant	i-syphilis a	ntibody, resp.), and	neg. reference
	(human serum albumir	ı) on t	he glutarald	ehyde -activated	
	carrier (such as gla	ss. ce	llulose acet	ate membrane, cellulo	se

APPLICATION NO.

DATE

nitrate membrane, nylon membrane, Si sheet, steel sheet, or ceramic sheet).

=> D L16 IBIB ABS 1-2

L16 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:449890 CAPLUS

DOCUMENT NUMBER:

NUMBER: 141:189366

TITLE:

Immunization with HCV synthetic peptides

conjugated to the P64k protein elicited strong

antibody response in mice

AUTHOR(S):

Alvarez-Lajonchere, Liz; Martinez, Gillian; Morales, Juan; Aguilar, Julio C.; Duenas-Carrera, Santiago

CORPORATE SOURCE:

HCV Department, Vaccine Division, Centro de Ingenieria

Genetica y Biotecnologia, Havana City, Cuba Biotecnologia Aplicada (2003), 20(4), 209-213

CODEN: BTAPEP; ISSN: 0864-4551

PUBLISHER:

SOURCE:

Elfos Scientiae

DOCUMENT TYPE:

Journal; (computer optical disk)

LANGUAGE: English

Two synthetic peptides comprising aa regions in the NS4 protein (aa 1689-1735) and the hypervariable region I (HVR I, aa 384-414) in the HCV E2 protein were conjugated to the P64k protein, a previously demonstrated carrier protein. These peptides were also conjugated to the Co. 120 protein, a truncated HCV core variant, to evaluate for the first time its ability as a carrier for B cell epitopes. Five micrograms of free peptides or conjugates, without an adjuvant, were administered s.c. to mice to evaluate the immune response of anti-HCV peptides. After four doses at weeks 0, 3, 6 and 10, only the animals vaccinated with the conjugates had a pos. antibody response against HCV peptides. Mice immunized with the conjugated P64k elicited the strongest antibody response against both NS4 and HVR I peptides. Particularly, the mean antibody titers against the HVR I peptide reached 1: 39,000 in mice immunized with the conjugated P64k. Unfortunately, anti-HVR I antibodies elicited by both, Co.120 and P64k conjugates only recognized the homologous HVR I sequence. The results indicate that conjugation to carrier proteins could be a feasible strategy to induce a strong antibody response against the HVR I that is potentially able to neutralize the homologous isolate of HCV.

REFERENCE COUNT:

32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1997:743751 CAPLUS

DOCUMENT NUMBER:

128:47287

TITLE:

C type hepatitis virus disease diagnostic agent

INVENTOR(S):

Takahama, Yoichi; Shiraishi, Junichi

PATENT ASSIGNEE(S):

Toa Medical Electronics Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09297141 TW 562927 US 6379886 EP 806669 EP 806669	A2 B B1 A2 A3	19971118 20031121 20020430 19971112 19971126	JP 1996-112442 TW 1997-86105490 US 1997-850328 EP 1997-107368	19960507 19970426 19970502 19970505
EP 806669 R: BE, DE, FR, CN 1170875	B1 GB, IT A	20020410 19980121	CN 1997-109798	19970506

US 2001-28172 US 2002081630 A1 20020627 20011221 PRIORITY APPLN. INFO.: JP 1996-112442 A 19960507 US 1997-850328 A1 19970502

Hepatitis C virus antigen or carrier protein conjugate is coated on a solid support and used for detecting anti-hepatitis C virus antibody and for diagnosing HCV infection. The HCV antigen is core antigen, NS3 antigen, NS4 antigen, or NS5 antigen, and the carrier protein is bovine serum albumin, egg white albumin or hemocyanin.

=> D L19 IBIB ABS 1-12

L19 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2000:891632 CAPLUS

DOCUMENT NUMBER:

134:41090

TITLE:

Peptide immunogen as vaccine for allergic reaction and

its preparation

INVENTOR(S):

Liu, Qingliang

PATENT ASSIGNEE(S):

Shanghai Inst. of Biological Products, Ministry of

Health, Peop. Rep. China

SOURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 30 pp.

CODEN: CNXXEV

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION: _____

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PRIC	CN 1253953 DRITY APPLN. INFO.:	Α .	20000524	CN 1998-121989 CN 1998-121989	19981112 19981112
AB	vaccines for treat	ing hype	rsensitivit	itopes are disclosed f y. The peptides are c	or use as
•	carrier protein, or carrier protein, and The carrier protein surface antigen, he nucleoprotein of rantigen. The adjust tucaresol, preferal synthesizing and purcarrier protein in agent (or transfer separating), and missing separating), and missing carrier protein in separating), and missing carrier protein, and missing carrier protein in the carrier prote	are fund are and is selepatitisables vivant is oly lipourifying the precing intaxing wi	sion protei dministered ected from B core ant rus, prefer liposome, A some. The peptide im sence of ch o E. coli, th adjuvant	n containing with adjuvant. hepatitis B igen, or ably hepatitis B surfa 1(OH)3 gel, gamma-inul human vaccine is prepa munogen, conjugated wi emical crosslinking saccharomyces, or phag . The chemical crossl	ce in, or red by th e, expressing,
	glutaraldehyde, bis	(urazo)	penziatne,	elc.	

L19 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2000:62274 CAPLUS

DOCUMENT NUMBER:

132:206650

TITLE:

Glutaraldehyde (GA) -hapten adducts, but without a

carrier protein, for use in a

specificity study on an antibody against a

GA-conjugated hapten compound: histamine monoclonal

antibody (AHA-2) as a model

AUTHOR(S):

Fujiwara, Kunio; Murata, Ikuo; Yagisawa, Shiroki;

Tanabe, Toshio; Yabuuchi, Masahiko; Sakakibara, Ryuzo;

Tsuru, Daisuke

CORPORATE SOURCE:

Faculty of Pharmaceutical Sciences, Nagasaki

University, Nagasaki, 852-8131, Japan

SOURCE:

Journal of Biochemistry (Tokyo) (1999), 126(6),

1170-1174

CODEN: JOBIAO; ISSN: 0021-924X Japanese Biochemical Society

DOCUMENT TYPE:

Journal

PUBLISHER: LANGUAGE:

English

In the authors' recent study on monoclonal antibodies (mAbs AHA-1-5) AB against glutaraldehyde (GA)-conjugated histamine (HA), the authors identified one mAb (AHA-2) which can detect neuronal HA in the rat brain with an immunocytochem. method (ICC). In the present study the specificity of AHA-2 mAb for use for ICC has been examined by competitive expts. involving HA and analogs, all of which had been allowed to react with GA followed by sodium borohydride, but not allowed to couple with the carrier protein. It was demonstrated that the antibody distinguished alterations in the chemical structure of the mol., showing decreased immunoreactivity with all the GA-adducts of (R)-(-)- α methylhistamine, 1- and 3-methylhistamine, L-histidine, and 1- and 3-methyl-L-histidine. AHA-1 mAb only reacted with GA-adducts of 3-MeHA (3-MeHA-GA) and HA (HA-GA), to almost the same degree, in relatively high concentration ranges. AHA-3, 4, and 5 mAbs reacted about 10- times more strongly with 1-MeHA-GA than with HA-GA, but reacted very little or not at all with the other analogs. These results may suggest that AHA-2 mAb recognized both the non-substituted imidazole and α -methine groups of a HA mol. in addition to the conjugation site of GA including the part(s) reduced with NaBH4, and especially the imidazole group more strictly than the other mAbs. This may partly explain why AHA-2, among the five AHA mAbs, can detect neuronal HA with an ICC method. The present ELISA method for GA-hapten adducts should be applicable to other antibodies against GA-conjugated biol. active amines or amino acids, thus allowing the study of antibody specificity for ICC more easily and accurately than was previously possible with hapten-protein conjugates as antigens. REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L19 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN 1997:407590 CAPLUS DOCUMENT NUMBER: 127:105280 TITLE: Immunochemical assay for recognition of 2-S-Glutathionyl acetate, a glutathione

ACCESSION NUMBER:

conjugate derived from 1,1-dichloroethylene-

epoxide

AUTHOR(S): Forkert, Poh-Gek; Collins, Kathy S.; Dowsley, Taylor

F.; Ross, Gregory M.

CORPORATE SOURCE: Dep. of Anatomy and Cell Biology and Departments of

Medicine and Pharmacology & Toxicology, Queen's

University, Kingston, ON, K7L 3N6, Can.

SOURCE: Journal of Pharmacology and Experimental Therapeutics

(1997), 281(3), 1422-1430

CODEN: JPETAB; ISSN: 0022-3565

PUBLISHER: Williams & Wilkins

DOCUMENT TYPE: Journal LANGUAGE: English

Our objective is to develop an antiserum against the chemical synthesized 2-S-glutathionyl acetate (GTA), and for immunization, we have used a hapten that consists of GTA conjugated to bovine serum albumin (BSA) as the carrier protein and glutaraldehyde (GLUT) as a chemical cross-linker. The antisera were raised in rabbits and were characterized by using the following synthesized structural analogs: GTA, glycine-GLUT-BSA (GLY-GLUT-BSA), GTA-GLUT-ovalbumin (GTA-GLUT-OVB), GTA-1-ethyl-3-(3-dimethylaminopropyl)carbodiimide-BSA (GTA-EDC-BSA), TRIS-GLUT-BSA, glutathione-GLUT-BSA (GSH-GLUT-BSA). The ELISA and slot immunoblotting were used to characterize the specificity of the antisera. Noncompetitive ELISA expts. showed that the reaction of the antiserum with the antigen was concentration-dependent. In the competitive ELISA, GTA-GLUT-BSA inhibited binding efficiently; in contrast, the unconjugated GTA did not inhibit binding to the antigen. Competitive studies with the other analogs indicated low or minimal reactivities with the antibodies, which were blocked by incubation with GLY-GLUT-BSA. However, there was residual reactivity with the antigen that was not competitively inhibited by either the GTA-EDC-BSA or the GSH-GLUT-BSA conjugates. Slot-blotting expts. confirmed the findings of the ELISA studies and revealed high specificity of the antiserum to detect the hapten. These results demonstrated the successful development of

polyclonal antibodies to detect GTA and hence 1,1-dichloroethylene (DCE) epoxide.

L19 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:406561 CAPLUS

DOCUMENT NUMBER: 115:6561

TITLE: Antibodies against neuroactive amino acids and

neuropeptides. I. A new two-step procedure for their

conjugation to carrier proteins

and the production of an anti-met-enkephalin antibody

reactive with glutaraldehyde-fixed tissues

AUTHOR(S): Meyer, Karl Heinz; Behringer, Dirk M.; Veh, Ruediger

CORPORATE SOURCE:

Abt. Neuroanat., Ruhr-Univ., Bochum, Germany

Journal of Histochemistry and Cytochemistry (1991),

39(6), 749-60

CODEN: JHCYAS; ISSN: 0022-1554

SOURCE:

DOCUMENT TYPE: Journal LANGUAGE: English

AB A new 2-step procedure was developed to couple haptens to bovine serum albumin (BSA) via **glutaraldehyde** (GA). After activation of BSA with excess GA and removal of unreacted GA, the hapten was bound to the activated protein in a second step. This 2-step procedure is easy to use, the desired mol. ratio of coupled hapten to protein is conveniently adjusted, and no visible precipitation of the conjugate is detected. Using a low peptide concentration, nearly 50% of the inserted haptens are bound to the protein, and unbound expensive peptide can be recovered after Sephadex chromatog. Antisera to neuroactive amino acids (GABA, glycine, and glutamate) and neuropeptides (Met-enkephalin) were prepared by immunization of rabbits with these conjugates. Immunol. anal. of immune sera by dot-blot and ELISA techniques and subsequent removal of cross-reactivities by solid-phase adsorption yielded monospecific antibodies, which were further purified by affinity chromatog. The immunocytochem. specificities of these purified antibodies were verified in adjacent sections of GA-fixed rat spinal cord. Pre-embedding staining with anti-Met-enkephalin in combination with post-embedding staining for amino acids such as GABA allowed double staining of the two antigens in a single semi-thin section.

L19 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1988:110412 CAPLUS

DOCUMENT NUMBER:

108:110412

TITLE:

The influence of pH and ionic strength on the coating

of peptides of herpes simplex virus type 1 in an

enzyme-linked immunosorbent assay

AUTHOR(S):

Geerligs, H. J.; Weijer, W. J.; Bloemhoff, W.;

Welling, G. W.; Welling-Wester, S.

CORPORATE SOURCE:

Lab. Med. Microbiol., Rijksuniv. Groningen, Groningen,

9713 EZ, Neth.

SOURCE:

Journal of Immunological Methods (1988), 106(2),

239-44

CODEN: JIMMBG; ISSN: 0022-1759

DOCUMENT TYPE:

Journal English

LANGUAGE:

AB Rabbits were immunized with synthetic peptides of herpes simplex virus type 1 glycoproteins, coupled to a carrier protein with glutaraldehyde. Antibodies directed against the peptides were determined in an ELISA. Either free peptides or peptides coupled with glutaraldehyde to another carrier protein than the one used for immunization were used as the coating antigen.

When conjugated peptides were used as the coat, it was necessary in some instances to correct the antibody titers for a substantial amount of antibody activity against glutaraldehyde. When free peptides were used, optimal coating conditions with regard to pH and ionic strength had to be determined, since some peptides failed to coat under standard conditions, at pH 9.6. Some peptides needed stringent pH conditions while others

could be coated in a broad pH range. The addition of 0.6 M NaCl had a

favorable effect on peptide coating.

L19 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:435769 CAPLUS

DOCUMENT NUMBER: 103:35769

TITLE: Synthetic peptides as antigen: pitfalls of

conjugation methods

AUTHOR(S): Briand, J. P.; Muller, S.; Van Regenmortel, M. H. V. CORPORATE SOURCE: Inst. Biol. Mol. Cell., CNRS, Strasbourg, 67000, Fr. Journal of Immunological Methods (1985), 78(1), 59-69

CODEN: JIMMBG; ISSN: 0022-1759

DOCUMENT TYPE: Journal LANGUAGE: English

AB Peptide-carrier conjugates were prepared using 9 different synthetic peptides, 3 carrier proteins and 4 coupling reagents. Residues of the carrier protein that were modified by different coupling reagents (e.g., glutaraldehyde, carbodiimides, bis-diazotized benzidine) were found to elicit specific antibodies that reacted with unrelated carrier proteins. treated with the same coupling agent. To demonstrate the presence of peptide antibodies in an antiserum raised against a peptide-carrier conjugate, it was necessary to use as antigen the peptide coupled to another carrier by means of a different coupling agent. Some of the commonly used conjugation methods were found to lead to conjugates of insufficient stability and sometimes also altered the antigenic properties of the peptide moiety. These difficulties can be overcome by addnl. control expts. designed to test the quality and the peptide-carrier conjugates.

L19 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:172760 CAPLUS

DOCUMENT NUMBER: 100:172760

TITLE: Conjugation of DNA fragments to protein carriers by

glutaraldehyde: immunogenicity of oligonucleotide-hemocyanin conjugates

AUTHOR(S): Borel, Halina; Sasaki, Takeshi; Stollar, David B.;

Borel, Yves

CORPORATE SOURCE: Div. Immunol., Child. Hosp. Med. Cent., Boston, MA,

02115, USA

SOURCE: Journal of Immunological Methods (1984), 67(2),

289-302

CODEN: JIMMBG; ISSN: 0022-1759

DOCUMENT TYPE: Journal LANGUAGE: English

AΒ Specific immunotherapy for systemic lupus erythematosus (SLE) has been hampered by a inability to link DNA fragments to carrier protein. Here, a novel technique is described, in which glutaraldehyde is the linking agent. A 2-stage method was used to link oligonucleotides to a soluble protein carrier, such as keyhole limpet hemocyanin (KLH) or human γ -globulin (HTT), whereas a 1-stage technique was sufficient to link oligonucleotides to sheep red cells. Both the UV absorbance spectrum and diphenylamine assay demonstrated that oligonucleotides were coupled to soluble protein. The conjugate of oligonucleotide and protein carrier appears to be recognized by anti-DNA antibody since oligonucleotide linked to either KLH or HGG inhibited the binding of anti-DNA antibody in vitro, and oligonucleotide-coupled sheep cells were agglutinated by seropos. sera from lupus patients. In addition, oligonucleotide-KLH raised hemagglutinating antibody to denatured DNA in C57BL/6, DBA/2, or NZB mice, as well as IgG antibody as detected by solid phase RIA in C57BL/6 and DBA/2 mice. The significance of this method for the development of an antigen-specific therapy of SLE is discussed.

L19 ANSWER 8 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2000:112689 BIOSIS DOCUMENT NUMBER: PREV200000112689

TITLE: Glutaraldehyde (GA)-hapten adducts, but without a

carrier protein, for use in a specificity

study on an antibody against a GA-conjugated hapten

compound: Histamine monoclonal antibody (AHA-2) as a model. Fujiwara, Kunio [Reprint author]; Murata, Ikuo; Yaqisawa, Shiroki; Tanabe, Toshio; Yabuuchi, Masahiko; Sakakibara,

Ryuzo; Tsuru, Daisuke

CORPORATE SOURCE:

Faculty of Pharmaceutical Sciences, Nagasaki University,

Bunkyo-machi 1-14, Nagasaki, 852-8131, Japan

Journal of Biochemistry (Tokyo), (Dec., 1999) Vol. 126, No. SOURCE:

6, pp. 1170-1174. print.

CODEN: JOBIAO. ISSN: 0021-924X.

DOCUMENT TYPE: Article LANGUAGE: English

AUTHOR(S):

ENTRY DATE: Entered STN: 29 Mar 2000

Last Updated on STN: 3 Jan 2002

In our recent study on monoclonal antibodies (mAbs AHA-1-5) against glutaraldehyde (GA)-conjugated histamine (HA), we identified one mAb (AHA-2) which can detect neuronal HA in the rat brain with an immunocytochemistry method (ICC) (Fujiwara et al. (1999) J. Biochem. 126, 503-509). In the present study the specificity of AHA-2 mAb for use for ICC has been examined by means of competitive experiments involving HA and analogs, all of which had been allowed to react with GA followed by sodium borohydride, but not allowed to couple with the carrier protein. It was demonstrated that the antibody distinguished alterations in the chemical structure of the molecule, showing decreased immunoreactivity with all the GA-adducts of (R)-(-)-alpha-methylhistamine, 1- and 3-methylhistamine, L-histidine, and 1- and 3-methyl-L-histidine. On the other hand, AHA-1 mAb only reacted with GA-adducts of 3-MeHA (3-MeHA-GA) and HA (HA-GA), to almost the same degree, in relatively high concentration ranges. AHA-3, 4, and 5 mAbs reacted about 10- times more strongly with 1-MeHA-GA than with HA-GA, but reacted very little or not at all with the other analogs. These results may suggest that AHA-2 mAb recognized both the non-substituted imidazole and alpha-methine groups of a HA molecule in addition to the conjugation site of GA including the part(s) reduced with NaBH4, and especially the imidazole group more strictly than the other mAbs. This may partly explain why AHA-2, among the five AHA mAbs, can detect neuronal HA with an ICC method. The present ELISA method for GA-hapten adducts should be applicable to other antibodies against GA-conjugated biologically active amines or amino acids, thus allowing the study of antibody specificity for ICC more easily and accurately than was previously possible with hapten-protein conjugates as antigens.

L19 ANSWER 9 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1997:312219 BIOSIS DOCUMENT NUMBER: PREV199799620022

TITLE: Immunochemical assay for recognition of 2-S-glutathionyl

acetate, a glutathione conjugate derived from

1,1-dichloroethylene-epoxide.

AUTHOR(S): Forkert, Poh-Gek [Reprint author]; Collins, Kathy S.;

Dowsley, Taylor F.; Ross, Gregory M.

CORPORATE SOURCE: Dep. Anatomy Cell Biol., Queen's Univ., Kingston, ON K7L

3N6, Canada

SOURCE: Journal of Pharmacology and Experimental Therapeutics,

(1997) Vol. 281, No. 3, pp. 1422-1430.

CODEN: JPETAB. ISSN: 0022-3565.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 26 Jul 1997

Last Updated on STN: 4 Sep 1997

AΒ Cytotoxicities induced by 1,1-dichloroethylene (DCE) are ascribed to cytochrome P450-dependent metabolism to an epoxide. Conjugation of the DCE-epoxide with glutathione (GSH) results in the formation of the conjugates 2-S-glutathionyl acetate (GTA) and 2-(S-glutathionyl) acetyl glutathione (GAG); GAG undergoes hydrolysis to form GTA, and thus GTA is a major metabolite of DCE metabolism. Our objective is to develop an antiserum against the chemically synthesized GTA, and for immunization, we have used a hapten that consists of GTA conjugated to bovine serum albumin (BSA) as the carrier protein and

glutaraldehyde (GLUT) as a chemical cross-linker. The antisera were raised in rabbits and were characterized by using the following synthesized structural analogs: GTA, glycine-GLUT-BSA (GLY-GLUT-BSA), GTA-GLUT-ovalbumin (GTA-GLUT-OVB), GTA-1-ethyl-3-(3-dimethylaminopropyl) carbodiimide-BSA (GTA-EDC-BSA), TRIS-GLUT-BSA, glutathione-GLUT-BSA (GSH-GLUT-BSA). The enzyme-linked immunosorbent assay (ELISA) and slot immunoblotting were used to characterize the specificity of the antisera. Noncompetitive ELISA experiments showed that the reaction of the antiserum with the antigen was concentration-dependent. In the competitive ELISA, GTA-GLUT-BSA inhibited binding efficiently; in contrast, the unconjugated GTA did not inhibit binding to the antigen. Competitive studies with the other analogs indicated low or minimal reactivities with the antibodies, which were blocked by incubation with GLY-GLUT-BSA. However, there was residual reactivity with the antigen that was not competitively inhibited by either the GTA-EDC-BSA or the GSH-GLUT-BSA conjugates. Slot-blotting experiments confirmed the findings of the ELISA studies and revealed high specificity of the antiserum to detect the hapten. These results demonstrated the successful development of polyclonal antibodies to detect GTA and hence DCE-epoxide.

L19 ANSWER 10 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on

ACCESSION NUMBER: 1991:321381 BIOSIS

DOCUMENT NUMBER: PREV199192031896; BA92:31896

TITLE: ANTIBODIES AGAINST NEUROACTIVE AMINO ACIDS AND

NEUROPEPTIDES I. A NEW TWO-STEP PROCEDURE FOR THEIR

CONJUGATION TO CARRIER PROTEINS AND THE

PRODUCTION OF AN ANTI-METHIONINE ENKEPHALIN ANTIBODY

REACTIVE WITH GLUTARALDEHYDE-FIXED TISSUES.

AUTHOR(S): MEYER K-H [Reprint author]; BEHRINGER D M; VEH R W CORPORATE SOURCE: ABT NEUROANATOMIE, RUHR-UNIV BOCHUM, UNIV 150, D-4630

BOCHUM, W GER

SOURCE: Journal of Histochemistry and Cytochemistry, (1991) Vol.

39, No. 6, pp. 749-760.

CODEN: JHCYAS. ISSN: 0022-1554.

DOCUMENT TYPE: Article FILE SEGMENT: BA LANGUAGE: **ENGLISH**

ENTRY DATE: Entered STN: 15 Jul 1991

Last Updated on STN: 16 Jul 1991

We developed a new two-step procedure to couple haptens to bovine serum albumin (BSA) via glutaraldehyde (GA). After activaation of BSA with excess GA and removal of unreacted GA, the hapten was bound to the activated protein in a second step. This two-step procedure is easy to use, the desired molecular ratio of coupled hapten to protein is conveniently adjusted, and no visible precipitation of the conjugate is detected. Using a low peptide concentration, nearly 50% of the inserted haptens are bound to the protein, and unbound expensive peptide can be recovered after Sephadex chromatography. Antisera to neuroactive amino acids (GABA, glycine, and glutamate) and neuropeptides (Met-enkephalin) were prepared by immunization of rabbits with these conjugates. Immunological analysis of immune sera by dot-blot and ELISA techniques and subsequent removal of crossreactivities by solid-phase adsorption yielded monospecific antibodies, which were further purified by affinity chromatography. The immunocytochemical specificities of these purified antibodies were verified in adjacent sections of GA-fixed rat spinal cord. Pre-embedding staining with anti-Met-enkephalin in combination with post-embedding staining for amino acids such as GABA allowed double staining of the two antigens in a single semi-thin section.

L19 ANSWER 11 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on

ACCESSION NUMBER: 1985:352376 BIOSIS

PREV198580022368; BA80:22368 DOCUMENT NUMBER:

TITLE: SYNTHETIC PEPTIDES AS ANTIGENS PITFALLS OF

CONJUGATION METHODS.

AUTHOR(S): BRIAND J P [Reprint author]; MULLER P; VAN REGENMORTEL M H

CORPORATE SOURCE: INST BIOLOGIE MOLECULAIRE ET CELLULARIE DU CNRS, 15 RUE

DESCARTES, 67000 STRASBOURG, FRANCE

Journal of Immunological Methods, (1985) Vol. 78, No. 1, SOURCE:

pp. 59-70.

CODEN: JIMMBG. ISSN: 0022-1759.

DOCUMENT TYPE: Article

FILE SEGMENT: BA LANGUAGE:

ENGLISH

Peptide-carrier conjugates were prepared using 9 different

synthetic peptides, 3 carrier proteins and 4 coupling reagents. Residues of the carrier protein that were

modified by different coupling reagents (e.g., glutaraldehyde,

carbodiimides, bis-diazotized benzidine) elicit specific antibodies that

reacted with unrelated carrier proteins treated with

the same coupling agent. To demonstrate the presence of peptide

antibodies in an antiserum raised against a peptide-carrier

conjugate, it was necessary to use as antigen the

peptide coupled to another carrier by means of a different coupling agent.

Some of the commonly used conjugation methods lead to conjugates of insufficient stability and sometimes also altered the antigenic properties of the peptide moiety. These difficulties can be overcome by

additional control experiments designed to test the quality and the peptide-carrier conjugates.

L19 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1984:283247 BIOSIS

DOCUMENT NUMBER: PREV198478019727; BA78:19727

TITLE: CONJUGATION OF DNA FRAGMENTS TO PROTEIN CARRIERS BY

GLUTARALDEHYDE IMMUNOGENICITY OF OLIGO NUCLEOTIDE HEMO

CYANIN CONJUGATES.

AUTHOR(S): BOREL H [Reprint author]; SASAKI T; STOLLAR D B; BOREL Y

CORPORATE SOURCE: CHILDRENS HOSP MED CENT, IMMUNOL DIV, 300 LONGWOOD AVE,

BOSTON, MASS 02115, USA

SOURCE: Journal of Immunological Methods, (1984) Vol. 67, No. 2,

pp. 289-302.

CODEN: JIMMBG. ISSN: 0022-1759.

DOCUMENT TYPE: Article

FILE SEGMENT: BA LANGUAGE: ENGLISH

The practical realization of the concept of specific immunotherapy for systemic lupus erythematosus (SLE) was hampered by an inability to link DNA fragments to carrier protein. A novel technique

is described, in which glutaraldehyde is the linking agent. A

2-stage method was used to link oligonucleotides to a soluble protein carrier, such as keyhole limpet hemocyanin (KLH) or human gamma globulin (HGG), whereas a 1-stage technique was sufficient to link oligonucleotides to sheep red cells. Both the UV absorbance spectrum and diphenylamine assay demonstrated that oligonucleotides were coupled to soluble protein.

The conjugate of oligonucleotide to protein carrier appears to

be recognized by anti-DNA antibody since oligonucleotide linked to either KLH or HGG inhibited the binding of anti-DNA antibody in vitro, and

oligonucleotide-coupled sheep cells are agglutinated by seropositive sera from lupus patients. Oligonucleotide-KLH raised hemagglutinating antibody to denatured DNA in C57BL/6, DBA/2 or NZB mice, as well as IgG antibody as detected by SPRIA [solid phase radioimmunoassay] in C57BL/6 and DBA/2 mice. The significance of this new method for the development of an antigen specific therapy of SLE is discussed.

FULL ESTIMATED COST ENTRY SESSION 128.64 128.91

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE

-15.33 -15.33

FILE 'STNGUIDE' ENTERED AT 08:49:10 ON 30 JUN 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 24, 2005 (20050624/UP).

=> antigen (s) BSA

0 ANTIGEN

0 BSA

L22 0 ANTIGEN (S) BSA

=> antigen (1) BSA

0 ANTIGEN

0 BSA

L23 0 ANTIGEN (L) BSA

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.48 129.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -15.33

FILE 'CAPLUS' ENTERED AT 08:54:07 ON 30 JUN 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 30 Jun 2005 VOL 143 ISS 1 FILE LAST UPDATED: 29 Jun 2005 (20050629/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> antigen (P) BSA

274034 ANTIGEN

219028 ANTIGENS

343644 ANTIGEN

(ANTIGEN OR ANTIGENS)

14249 BSA

71 BSAS

14286 BSA

(BSA OR BSAS)

```
L24
        1761 ANTIGEN (P) BSA
=> conjugate and L24
         61056 CONJUGATE
         54015 CONJUGATES
         94225 CONJUGATE
               (CONJUGATE OR CONJUGATES)
L25
          520 CONJUGATE AND L24
=> HCV and L25
          9298 HCV
           .17 HCVS
          9302 HCV
                (HCV OR HCVS)
L26
             0 HCV AND L25
=> cross (s) link
        463480 CROSS
        15864 CROSSES
        477185 CROSS
                 (CROSS OR CROSSES)
         52702 LINK
         25796 LINKS
         74899 LINK
                (LINK OR LINKS)
L27 8980 CROSS (S) LINK
\Rightarrow L27 and L25
L28
       0 L27 AND L25
=> L25 and HCV
          9298 HCV
           17 HCVS
          9302 HCV
                (HCV OR HCVS)
L29
             0 L25 AND HCV
=> solid (w) phase
        966755 SOLID
       274057 SOLIDS
       1169197 SOLID
                (SOLID OR SOLIDS)
       1589200 PHASE
       335164 PHASES
       1730848 PHASE
               (PHASE OR PHASES)
L30
      102950 SOLID (W) PHASE
=> L25 and L30
          54 L25 AND L30
=> HCV and L31
         9298 HCV
          17 HCVS
        9302 HCV
               (HCV OR HCVS)
L32
           0 HCV AND L31
=> Particle
        651062 PARTICLE
        730947 PARTICLES
       1098966 PARTICLE
                 (PARTICLE OR PARTICLES)
=> L31 and L33
```

L34

0 L31 AND L33

```
137602 POLYSTYRENE
                 (POLYSTYRENE OR POLYSTYRENES)
L35
            7 POLYSTYRENE AND L31
=> copolymer and L31
        560534 COPOLYMER
        181945 COPOLYMERS
        608300 COPOLYMER
                 (COPOLYMER OR COPOLYMERS)
L36
             0 COPOLYMER AND L31
=> erythrocyte and L31
         92711 ERYTHROCYTE
         79035 ERYTHROCYTES
        123964 ERYTHROCYTE
                 (ERYTHROCYTE OR ERYTHROCYTES)
L37
             0 ERYTHROCYTE AND L31
=> gelating and L31
           588 GELATING
L38
             0 GELATING AND L31
=> D L35 IBIB ABS 1-7
L35 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                        1999:297246 CAPLUS
DOCUMENT NUMBER:
                         130:293625
TITLE:
                        Method for reducing non-specific binding in
                         surface-bound immunoassays by using polyethylene
                         glycol derivatized biomolecules
INVENTOR(S):
                        Hornauer, Hans; Lenz, Helmut; Sluka, Peter; Karl,
                         Johann; Mutter, Wolfgang
PATENT ASSIGNEE(S):
                        Roche Diagnostics GmbH, Germany
                        Eur. Pat. Appl., 15 pp.
SOURCE:
                        CODEN: EPXXDW
DOCUMENT TYPE:
                         Patent.
LANGUAGE:
                         German
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                DATE
     PATENT NO.
                        KIND
                                           APPLICATION NO.
                                                                   DATE
                         ____
                                            _____
     EP 913690
                         A2
                                19990506
                                           EP 1998-120756
                                                                   19981102
    EP 913690
                         А3
                                20030326
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     DE 19748489
                                19990506
                         A1
                                           DE 1997-19748489
                                                                   19971103
     US 2002052009
                         A1
                                20020502
                                           US 1998-184043
                                                                   19981102
     JP 11211727
                         A2
                                19990806
                                            JP 1998-313811
                                                                   19981104
PRIORITY APPLN. INFO.:
                                            DE 1997-19748489
                                                                A 19971103
     The invention concerns the reduction of non-specific binding during
     immunoassays by immobilizing the analyte specific reactant and an analyte
    .non-specific reactant coupled to polyethylene glycol; incubating the probe
    on that surface; and detecting the amount of analyte. Further versions of
     the invention include the coupling of polyethylene glycol to labeled
     antibodies or antigens, application in sandwich assays and in
     array-type quantifications. The conjugates are of the general
     formulas: Pr[-(AOn)T]m; Pr-I-[-(AOn)T]m; where P = biotin or biotin
     derivs.; I = inert support; r = 1-10; AO = (C2-C3)-alkylene oxide; n =
     5-500; T = OH, C1-C4-alkoxy, C1-C4-acyl; m = 1-10. According to another
     versions conjugates are: F[-(AOn)T]m; Pr'-Fr'[-(AOn)T]m;
    Ms-F"[-(AOn)T]m; where F = lectins, streptavidin, avidin,
     anti-hapten-antibodies; P' = label for the reactant; F = biomol.; r =
     1-10; Ms = label; s = 1-10; F" = soluble biomol., reacts with the analyte.
```

=> polystyrene and L31

136792 POLYSTYRENE 4199 POLYSTYRENES The invention relates to assay kits containing the components. The method can be applied in solid phase bound hybridization reactions. Thus biotin-PEG, biotin-methoxypolyethylene glycol, and streptavidin-PEG conjugates were prepared Polystyrene surface was coated with BSA-streptavidin conjugate; biotinylated antibodies to TSH were immobilized onto the surface; to avoid non-specific binding the surface was treated with biotin-PEG conjugate. Using digoxigenin labeled p24 conjugate or anti-IgG-digoxigenin conjugate followed by a latex agglutination assay it was shown that background signals were one fifth or less when using biotin-PEG conjugate compared to the control.

L35 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:759676 CAPLUS

DOCUMENT NUMBER: 128:112548

TITLE: Characterization of an enzyme linked immunosorbent

assay for Aflatoxin B1 based on commercial reagents

AUTHOR(S): Pesavento, Maria; Domagala, Slavomir; Baldini, Enrica;

Cucca, Lucia

CORPORATE SOURCE: Instituto di Scienze Matematiche, Fisiche e Chimiche,

University of Milano, Milan, Italy

SOURCE: Talanta (1997), 45(1), 91-104

CODEN: TLNTA2; ISSN: 0039-9140

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Two indirect ELISA have been investigated for the determination of Aflatoxin B1, employing only reagents com. available, whose composition is not exactly known.

In both cases the antigen (Aflatoxin B1-BSA) was

coated to the solid phase (polystyrene

microtiter plates). In one procedure the specific antibody was a conjugate with peroxidase, while in the other one it was not

conjugated, and a second antibody labeled with alkaline phosphatase was used. A simple model was employed to characterize the equilibrium, which is of help also if the exact composition of the immunoreagents is not known, and allows to predict the shape and position of the competition curve. The factors which determine the dynamic range were found to be the affinity constant the complex in the solid and the amount of antigen in the solid, and

the affinity constant of the complex in solution phase. Useful aspects of the antigen-antibody complexation equilibrium in the solid

phase were investigated by ELISA at zero concentration of antigen in solution, obtaining csc* and K'fTn. The equilibrium in solution were studied by competition ELISA, obtaining K, the affinity constant of the antigen -antibody complex in solution Similar results were obtained with the two procedures, for instance the affinity constant in solution was 2 + 108.

A procedure for the determination of Aflatoxin B1 in food samples was developed.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:529454 CAPLUS

DOCUMENT NUMBER: 117:129454

TITLE: The physical and functional behavior of capture

antibodies adsorbed on polystyrene

AUTHOR(S): Butler, J. E.; Ni, L.; Nessler, R.; Joshi, K. S.;

Suter, M.; Rosenberg, B.; Chang, J.; Brown, W. R.;

Cantarero, L. A.

CORPORATE SOURCE: Dep. Microbiol., Univ. Iowa, Iowa City, IA, 52242, USA

SOURCE: Journal of Immunological Methods (1992), 150(1-2),

77-90

CODEN: JIMMBG; ISSN: 0022-1759

DOCUMENT TYPE: Journal LANGUAGE: English

AB Six monoclonal and 2 polyclonal antibodies to fluorescein (FLU) were affinity purified and immobilized on Immulon 2 polystyrene as capture antibodies (CAbs): (a) by passive adsorption at pH 9.6, (b) via a

streptavidin bridge to a biotinylated carrier mol., and (c) via an

polystyrene. Data show that <3.0% of the binding sites of monoclonal CAbs and .apprx.5-10% of those of polyclonal CAbs were capable of capturing antigen (FLU4.2-BSA) after passive adsorption. Immobilization of CAbs via an antiglobulin or a streptavidin bridge, resulted in the preservation of antibody binding sites to >70% for some monoclonals although immobilization via the streptavidin bridge resulted in the highest number of functional sites/well. The data presented are consistent with studies on other adsorbed proteins which demonstrate that passive adsorption on polystyrene results in the loss of protein function. Furthermore, these data show that generally less than half of the binding sites of antibodies available in solution are available after solid-phase immobilization even when nonadsorptive methods are employed. Some polyclonal anti-FLU also have lower average avidity following passive adsorption compared with CAbs immobilization via a streptavidin bridge. Immunochem. studies revealed that adsorbed polyclonal CAbs performed like monoclonals when tested with multivalent antigens (FLU10-IgA) but in an expected heterogeneous manner in Scatchard plots when tested using univalent FLU-insulin. This observation implied crosslinking of immobilized CAbs by the multivalent antigen. Because only 5-10% of the adsorbed polyclonal CAbs are active, the survivors must be nonrandomly distributed in clusters to explain the crosslinking. This was confirmed by SEM which gave rise to the hypothesis that antibodies which retain activity after adsorption, are those present in clusters, i.e., the functional adsorbed CAb is an antibody cluster. Data presented in this report on the behavior of adsorbed CAbs, and reviewed from the work of others for various adsorbed proteins, indicate that the method of passive adsorption at pH 9.6, which is widely used in popular microtiter ELISAs, and which has in many ways revolutionized immunoassay, is a method of protein denaturation. Assayists that utilize passive adsorption of proteins on hydrophobic supports as part of their research need to be cognizant of this phenomenon, while inventors of immunoassays should develop alternative methods of immobilization which do not destroy 90% of the functional activity of solid-phase reactant.

antiglobulin which had been previously adsorbed passively to the

L35 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:16761 CAPLUS

DOCUMENT NUMBER: 106:16761

TITLE: Monoclonal antibodies to chlorinated dibenzo-p-dioxins

AUTHOR(S): Kennel, S. J.; Mason, G.; Safe, S.

CORPORATE SOURCE: Div. Biol., Oak Ridge Natl. Lab., Oak Ridge, TN,

37830, USA

for direct binding to BSA-TCDD or BSA-aniline.

SOURCE: Chemosphere (1986), 15(9-12), 2007-10

CODEN: CMSHAF; ISSN: 0045-6535

DOCUMENT TYPE: Journal LANGUAGE: English

A thyroglobulin conjugate of dioxin (thyroglobulin-2 adipamide, 3,7,8-trichlorodibenzo-p-dioxin) (TG-TCDD) was used to immunize BALB/c mice. Hybridomas were produced by cell fusion between immune spleen cells and mouse myelomas SP2/0, P3, or NS1. In order to screen the thousands of resultant cultures for production of monoclonal antibodies (MoAb), a rapid, solid phase RIA for antibody to dioxins was developed. This involved attaching bovine serum albumin (BSA) coupled with trichlorodibenzo-p-dioxin (BSA-TCDD) to polystyrene plates to be used as a solid phase target antigen for reaction with MoAb. Fourteen hybridomas were identified that produced MoAb reacting with BSA-TCDD but not with BSA alone. Antibodies were tested for binding to BSA-aniline to eliminate those with limited binding specificity. Initial studies indicated that most MoAbs bound BSA-aniline as well as BSA-TCDD. More detailed analyses indicated that while most MoAbs showed reaction with BSA-aniline, 2 showed preferential binding to BSA-TCDD of >200-fold whereas rabbit

antisera demonstrated only a 5-fold discrimination. MoAb 391-1B was purified from mouse ascites fluid and after radioiodination, was tested

125I-labeled MoAb showed no binding to BSA-aniline while demonstrating high binding to BSA-TCDD (Ka = 4.5 + 108 L/mol).

L35 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:422642 CAPLUS

DOCUMENT NUMBER: 105:22642

TITLE: Adsorption-desorption of antigen to polystyrene plates used in ELISA

Nieto, A.; Gaya, A.; Moreno, C.; Jansa, M.; Vives, J.

AUTHOR(S): CORPORATE SOURCE: Immunol. Serv., Clin. Prov. Hosp., Barcelona, 08036,

Spain

Annales de l'Institut Pasteur/Immunology (1986), SOURCE:

137C(2), 161-72

CODEN: AIPIEP; ISSN: 0769-2625

DOCUMENT TYPE: Journal LANGUAGE: English

AB Since ELISA reliability depends to a great extent upon solidphase reagent concentration and stability, the authors sought to analyze the influence of exptl. conditions during ELISA performance on the adsorption/desorption of proteins to microplates. The effect upon desorption of several exptl. parameters (antigen concentration, antibody concentration and affinity, washings, conjugate and inhibitor incubations) and quant. treatment of protein-polystyrene adsorption were analyzed. The adsorption to polystyrene microplates was studied with a hapten-conjugated protein arsonate conjugated bovine serum albumin (BSA-Ar36) in order to facilitate the anal. of the influence of antibody affinity on desorption during ELISA. Both serum and washings promote desorption but do not affect ELISA reliability. Polystyrene plates adsorb BSA -Ar36 according to the Langmuir isotherm. The adsorption constant was 2.1 + 108 L/mol and maximal surface concentration of protein on solid phase was 1.8 + 10-7 g/cm2. Although desorption was present, it did not affect the reliability of results of either direct or inhibition ELISA, because it was not dependent on the composition of the sample.

L35 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

1986:181193 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 104:181193

TITLE: Monoclonal antibodies to chlorinated dibenzo-p-dioxins AUTHOR(S): Kennel, Stephen J.; Jason, Casey; Albro, Phillip W.;

Mason, Grant; Safe, Stephen H.

CORPORATE SOURCE: Biol. Div., Oak Ridge Natl. Lab., Oak Ridge, TN,

37831, USA

SOURCE: Toxicology and Applied Pharmacology (1986), 82(2),

256-63

CODEN: TXAPA9; ISSN: 0041-008X

DOCUMENT TYPE: Journal LANGUAGE: English

A thyroglobulin conjugate of dioxin [thyroglobulin-3,7,8trichlorodibenzo-p-dioxin 2-adipamide [101705-34-4] (TG-I)] was used to immunize BALB/c mice. Hybridomas were produced by cell fusion between immune spleen cells and mouse myelomas SP2/0, P3, or NS1. To screen the thousands of resultant cultures for production of monoclonal antibodies (MoAb), a rapid, solid-phase radioimmunoassay for antibody to dioxins was developed. This procedure involved attaching bovine serum albumin coupled with I (BSA-I) to polystyrene plates to be used as a solid-phase target antigen for reaction with MoAb. Fourteen hybridomas were identified that produced MoAb reacting with BSA-I but not with BSA alone. Antibodies were tested for binding to BSA -aniline to eliminate those with limited binding specificity. studies indicated that most MoAbs bound BSA-aniline as well as BSA-I. More detailed analyses indicated that while most MoAbs showed some reaction with BSA-aniline, 2 showed preferential binding to BSA-I of >200-fold whereas rabbit antisera

demonstrated only a 5-fold discrimination. MoAb 391-1B was purified from mouse ascites fluid and after radioiodination, was tested for direct binding to BSA-I or BSA-aniline. [125I]MoAb 391-1B showed no significant binding to BSA-aniline while demonstrating high binding to BSA-I (Ka = 4.5 + 108 L/mol).

L35 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1982:48630 CAPLUS

DOCUMENT NUMBER: 96:48630

TITLE: Conjugate used for immunological assays by

chemiluminescence

INVENTOR(S): Forgione, Peter Salvatore; Henderson, William Arthur,

Jr.

PATENT ASSIGNEE(S): Fisher Scientific Co., USA

SOURCE: Fr. Demande, 17 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
FR 2468125	A 1	19810430	FR 1980-22282		19801017
FR 2468125	B1	19850823			
GB 2063469	Α	19810603	GB 1980-33401		19801016
GB 2063469	B2 -	19830720			
DE 3039157	A 1	19810827	DE 1980-3039157		19801016
CA 1135620	A 1	19821116	CA 1980-362570		19801016
JP 56096249	A2	19810804	JP 1980-144516		19801017
US 4375972	Α	19830308	US 1981-328007		19811207
PRIORITY APPLN. INFO.:			US 1979-85601	Α	19791017

AB A method and reagent are described for the rapid and sensitive immunol. determination of antigens, antibodies, and other substances in biol. fluids by chemiluminescence. The immunol. reagent consists of an antigen (e.g. hormone, plasma protein, or hapten) or antibody conjugated to a metalloporphyrin indicator (e.g. hemin, Hb, cytochrome c, catalase) by cyanuric chloride, acrylic chloride, or glutaraldehyde. The method can be used either for solid-phase or sandwich immunoassays. Thus, human Hb was determined by fixing purified anti-Hb antibody on polystyrene tubes for 1 h at 37°, incubating with bovine serum albumin (BSA) for 30 min at 37°, washing the tubes with BSA containing Tween in buffered saline, and incubating in the absence and presence of human Hb for 30 min at room temperature The tubes then were washed with BSA-Tween, and the chemiluminescence was measured. The latter was greater in the presence of Hb and proportional to the Hb concentration The method was also used for the determination of IgG in blood serum and for the determination of myoglobin and human chorionic gonadotropin.

```
=> conjugated (w) antigen 95898 CONJUGATED
```

274034 ANTIGEN

219028 ANTIGENS

343644 ANTIGEN

(ANTIGEN OR ANTIGENS)

L39 132 CONJUGATED (W) ANTIGEN

=> BSA and L39

14249 BSA

71 BSAS

14286 BSA

(BSA OR BSAS)

L40 13 BSA AND L39

=> HCV and L39

9298 HCV 17 HCVS 9302 HCV

(HCV OR HCVS)

L41 0 HCV AND L39

=> ovalbumin and L39

13682 OVALBUMIN 5697 OVALBUMINS 15989 OVALBUMIN

(OVALBUMIN OR OVALBUMINS)

L42 11 OVALBUMIN AND L39

=> hemocyanin and L39

5903 HEMOCYANIN 3811 HEMOCYANINS 6623 HEMOCYANIN

(HEMOCYANIN OR HEMOCYANINS)

L43 7 HEMOCYANIN AND L39

=> solid and L40

966755 SOLID 274057 SOLIDS 1169197 SOLID

(SOLID OR SOLIDS)

L44 1 SOLID AND L40

=> solid and L42

966755 SOLID 274057 SOLIDS 1169197 SOLID

(SOLID OR SOLIDS)

L45 1 SOLID AND L42

=> solid and L43

966755 SOLID 274057 SOLIDS 1169197 SOLID

(SOLID OR SOLIDS)

L46 0 SOLID AND L43

=> D L45 IBIB abs

L45 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1993:18874 CAPLUS

DOCUMENT NUMBER:

118:18874

TITLE:

Use of a mixture of conjugated and unconjugated

solid phase binding reagent to enhance the

performance of immunoassays

INVENTOR(S):

Lambert, Stephen B.

PATENT ASSIGNEE(S):

du Pont de Nemours, E. I., and Co., USA

SOURCE: U.S., 6 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				·
US 5164299	Α	19921117	US 1990-497062	19900320
PRIORITY APPLN. INFO	.:		US 1990-497062	19900320
AB The title react	ing binding	reagent i	s a mixture of carrier	c-conjugated and
unconjugated bi	nding reage	nt and is	immobilized on a solic	1
phase. The rea	gent is use	d for enha	ncing the detection of	analyte in a
			eneous or homogeneous	-
immunoassav. A	mixture of	unconjuga	ted and bovine serum a	albumin-conjugated

recombinant Hepatitis B core antigen (rHBcAg) was used to improve the specificity of a competitive immunoassay of rHBcAg.

=> D L44 IBIB ABS

STD ----- BIB, IPC, and NCL

L44 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 1994:531921 CAPLUS DOCUMENT NUMBER: 121:131921 TITLE: Immunorecognition of ring skeleton of taxanes by chicken egg yolk antibodies AUTHOR(S): Concetti, Antonio; Ripani, Elisabetta; Barboni, Luciano; Torregiani, Elisabetta; Bombardelli, Ezio; Gariboldi, Pierluigi; Venanzi, Franco M. CORPORATE SOURCE: Dip. Biol., M.C.A., Camerino, I-63023, Italy Biological Chemistry Hoppe-Seyler (1994), 375(6), SOURCE: 419-23 CODEN: BCHSEI; ISSN: 0177-3593 DOCUMENT TYPE: Journal LANGUAGE: English Anti-10 deacetylbaccatin III (DAB) antibodies (IqY) were elicited in hens immunized with a succinyl-DAB/BSA conjugate and extracted from egg yolk. As shown by indirect competitive inhibition enzyme immunoassay (CIEIA), the addition of free-DAB competitively inhibited the binding of affinity purified anti-DAB IgY to DAB/BSA solid phase conjugated antigen. The assay enabled the detection of DAB in concns. as low as 7.5 ng/mL (13.7 nm DAB), whereas anti-DAB IgY did not react with taxol even at a concentration a thousand times higher. The structural requirements of the diterpenoid nucleus for binding to IqY were considered on the basis of the levels of cross-reaction found with 10 authentic taxanes. The results indicate that anti-DAB IqY represents the first high affinity antibody produced capable of recognizing the ring skeleton of taxol precursors. => solid and 140 966755 SOLID 274057 SOLIDS 1169197 SOLID (SOLID OR SOLIDS) L47 1 SOLID AND L40 => D L47 IBIIB ABs 'IBIIB' IS NOT A VALID FORMAT FOR FILE 'CAPLUS' The following are valid formats: ABS ----- GI and AB ALL ----- BIB, AB, IND, RE APPS ---- AI, PRAI BIB ----- AN, plus Bibliographic Data and PI table (default) CAN ----- List of CA abstract numbers without answer numbers CBIB ---- AN, plus Compressed Bibliographic Data DALL ----- ALL, delimited (end of each field identified) DMAX ----- MAX, delimited for post-processing FAM ----- AN, PI and PRAI in table, plus Patent Family data FBIB ----- AN, BIB, plus Patent FAM IND ----- Indexing data IPC ----- International Patent Classifications MAX ----- ALL, plus Patent FAM, RE PATS ----- PI, SO SAM ----- CC, SX, TI, ST, IT SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers; SCAN must be entered on the same line as the DISPLAY, e.g., D SCAN or DISPLAY SCAN)

IABS ----- ABS, indented with text labels IALL ----- ALL, indented with text labels IBIB ----- BIB, indented with text labels IMAX ----- MAX, indented with text labels ISTD ----- STD, indented with text labels OBIB ----- AN, plus Bibliographic Data (original) OIBIB ----- OBIB, indented with text labels SBIB ----- BIB, no citations SIBIB ----- IBIB, no citations HIT ----- Fields containing hit terms HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT) containing hit terms HITRN ----- HIT RN and its text modification HITSTR ----- HIT RN, its text modification, its CA index name, and its structure diagram HITSEQ ----- HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields

FHITSTR ---- First HIT RN, its text modification, its CA index name, and its structure diagram

FHITSEQ ---- First HIT RN, its text modification, its CA index name, its

structure diagram, plus NTE and SEQ fields KWIC ----- Hit term plus 20 words on either side

OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI, AU; BIB, ST; TI, IND; TI, SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number. ENTER DISPLAY FORMAT (BIB): IBIB

L47 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:531921 CAPLUS

DOCUMENT NUMBER: 121:131921

TITLE: Immunorecognition of ring skeleton of taxanes by

chicken egg yolk antibodies

AUTHOR(S): Concetti, Antonio; Ripani, Elisabetta; Barboni,

Luciano; Torregiani, Elisabetta; Bombardelli, Ezio;

Gariboldi, Pierluigi; Venanzi, Franco M.

CORPORATE SOURCE: Dip. Biol., M.C.A., Camerino, I-63023, Italy

SOURCE: Biological Chemistry Hoppe-Seyler (1994), 375(6),

419-23

CODEN: BCHSEI; ISSN: 0177-3593

DOCUMENT TYPE: Journal LANGUAGE: English

=> D L47 IBIB ABS

L47 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:531921 CAPLUS

DOCUMENT NUMBER: 121:131921

TITLE: Immunorecognition of ring skeleton of taxanes by

chicken egg yolk antibodies

AUTHOR(S): Concetti, Antonio; Ripani, Elisabetta; Barboni,

Luciano; Torregiani, Elisabetta; Bombardelli, Ezio;

Gariboldi, Pierluigi; Venanzi, Franco M.

CORPORATE SOURCE: Dip. Biol., M.C.A., Camerino, I-63023, Italy

SOURCE: Biological Chemistry Hoppe-Seyler (1994), 375(6), 419-23

CODEN: BCHSEI; ISSN: 0177-3593

DOCUMENT TYPE:

Journal English

LANGUAGE:

Anti-10 deacetylbaccatin III (DAB) antibodies (IgY) were elicited in hens immunized with a succinyl-DAB/BSA conjugate and extracted from egg yolk. As shown by indirect competitive inhibition enzyme immunoassay (CIEIA), the addition of free-DAB competitively inhibited the binding of affinity purified anti-DAB IgY to DAB/BSA solid phase conjugated antigen. The assay enabled the detection of DAB in concns. as low as 7.5 ng/mL (13.7 nm DAB), whereas anti-DAB IqY did not react with taxol even at a concentration a thousand times higher. The structural requirements of the diterpenoid nucleus for binding to IgY were considered on the basis of the levels of cross-reaction found with 10 authentic taxanes. The results indicate that anti-DAB IgY represents the first high affinity antibody produced capable of recognizing the ring skeleton of taxol precursors.

=> HCV

9298 HCV

17 HCVS

L48 9302 HCV

(HCV OR HCVS)

=> L1 and 148

L49 1 L1 AND L48

=> BSA and L48

14249 BSA

71 BSAS

14286 BSA

(BSA OR BSAS)

L50 12 BSA AND L48

=> conjugate and L50

61056 CONJUGATE

54015 CONJUGATES

94225 CONJUGATE

(CONJUGATE OR CONJUGATES)

L51 0 CONJUGATE AND L50

=> D L49 IBIB ABS

L49 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:652870 CAPLUS

DOCUMENT NUMBER:

139:250375

TITLE:

Protein chip for detecting blood bank sampling-induced

infection

INVENTOR(S):

Zhang, Tao; Li, Bin; Peng, Yongji; Li, Hongmei; Ren,

Yiping

PATENT ASSIGNEE(S):

Jingtai Biological Technology Co., Ltd., Peop. Rep.

SOURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 15 pp. CODEN: CNXXEV

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinese

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APE	PLICATION NO.	DATE	
							_
	CN 1373365	Α	20021009	CN	2001-142625	2001121:	1
PRIO	RITY APPLN. INFO.:			CN	2001-142625	2001121	1
AB	The protein chip for	r detect	ting blood k	bank	sampling-induced	infection v	via
	aimultanaana dataat	:£				c	

simultaneous detection of multiple antigens is prepared by fixing the proteins (such as anti-hepatitis B surface antigen (HBsAq)

```
antibody, hepatitis C virus antigen (HCVAg) fragment, type I
     autoimmune-deficient virus antigen (ADVAg) fragment, type II
     ADVAg fragment, and syphilis antigen fragment), their pos. refs.
     (HBsAg fragment, anti-HCV surface antigen antibody
     fragment, anti-type I ADVAg fragment, anti-type II ADVAg fragment, and
     anti-syphilis antibody, resp.), and neg. reference (human serum albumin) on the
     glutaraldehyde-activated carrier (such as glass, cellulose acetate
     membrane, cellulose nitrate membrane, nylon membrane, Si sheet, steel
     sheet, or ceramic sheet).
=> "solid phase
```

```
MISMATCHED QUOTE '"SOLID'
Quotation marks (or apostrophes) must be used in pairs,
one before and one after the expression you are setting
off or masking.
=> "solid support'
MISMATCHED QUOTE '"SOLID'
Quotation marks (or apostrophes) must be used in pairs,
one before and one after the expression you are setting
off or masking.
=> "solid support"
        966755 "SOLID"
        274057 "SOLIDS"
       1169197 "SOLID"
                  ("SOLID" OR "SOLIDS")
        418105 "SUPPORT"
        117143 "SUPPORTS"
        496898 "SUPPORT"
                  ("SUPPORT" OR "SUPPORTS")
L52
          9577 "SOLID SUPPORT"
                 ("SOLID"(W) "SUPPORT")
=> "polystyren latx particle"
            45 "POLYSTYREN"
             2 "POLYSTYRENS"
            47 "POLYSTYREN"
                  ("POLYSTYREN" OR "POLYSTYRENS")
             3 "LATX"
        651062 "PARTICLE"
        730947 "PARTICLES"
       1098966 "PARTICLE"
                 ("PARTICLE" OR "PARTICLES")
L53
             0 "POLYSTYREN LATX PARTICLE"
                 ("POLYSTYREN"(W) "LATX"(W) "PARTICLE")
=> "polystyren latex particle"
            45 "POLYSTYREN"
             2 "POLYSTYRENS"
            47 "POLYSTYREN"
                  ("POLYSTYREN" OR "POLYSTYRENS")
         66692 "LATEX"
         16515 "LATEXES"
          1077 "LATICES"
         69630 "LATEX"
                  ("LATEX" OR "LATEXES" OR "LATICES")
        651062 "PARTICLE"
        730947 "PARTICLES"
       1098966 "PARTICLE"
                  ("PARTICLE" OR "PARTICLES")
L54
             1 "POLYSTYREN LATEX PARTICLE"
                  ("POLYSTYREN"(W)"LATEX"(W)"PARTICLE")
=> polystyren and L48
```

45 POLYSTYREN

```
(POLYSTYREN OR POLYSTYRENS)
L55
             0 POLYSTYREN AND L48
=> polystyrene and L48
        136792 POLYSTYRENE
          4199 POLYSTYRENES ·
        137602 POLYSTYRENE
                (POLYSTYRENE OR POLYSTYRENES)
L56
            28 POLYSTYRENE AND L48
=> copolymer (s) particle
        560534 COPOLYMER
        181945 COPOLYMERS
        608300 COPOLYMER
                 (COPOLYMER OR COPOLYMERS)
        651062 PARTICLE
        730947 PARTICLES
       1098966 PARTICLE
                 (PARTICLE OR PARTICLES)
         25759 COPOLYMER (S) PARTICLE
L57
=> L48 and L57
L58
       1 L48 AND L57
=> erythrocyte and L48
         92711 ERYTHROCYTE
         79035 ERYTHROCYTES
        123964 ERYTHROCYTE
                 (ERYTHROCYTE OR ERYTHROCYTES)
L59
            40 ERYTHROCYTE AND L48
=> gelatin (w) particle and L48
         65615 GELATIN
         23402 GELATINS
         72990 GELATIN
                 (GELATIN OR GELATINS)
        651062 PARTICLE
        730947 PARTICLES
       1098966 PARTICLE
                 (PARTICLE OR PARTICLES)
           209 GELATIN (W) PARTICLE
             4 GELATIN (W) PARTICLE AND L48
L60
=> L52 and 148
           19 L52 AND L48
L61
=> core and NS1
SYSTEM LIMITS EXCEEDED - SEARCH ENDED
The search profile you entered was too complex or gave too many
answers. Simplify or subdivide the query and try again. If you have
exceeded the answer limit, enter DELETE HISTORY at an arrow prompt
(=>) to remove all previous answers sets and begin at L1. Use the
SAVE command to store any important profiles or answer sets before
using DELETE HISTORY.
=> "core antigen"
        283322 "CORE"
         61623 "CORES"
        313638 "CORE"
                 ("CORE" OR "CORES")
        274034 "ANTIGEN"
        219028 "ANTIGENS"
        343644 "ANTIGEN"
                 ("ANTIGEN" OR "ANTIGENS")
L62
         1500 "CORE ANTIGEN"
```

2 POLYSTYRENS 47 POLYSTYREN

```
("CORE"(W) "ANTIGEN")
=> L61 and L62
L63
             6 L61 AND L62
=> envelope and L61
         51073 ENVELOPE
          9120 ENVELOPES
         56423 ENVELOPE
                 (ENVELOPE OR ENVELOPES)
L64
             1 ENVELOPE AND L61
=> L62 and L59
             1 L62 AND L59
L65
=> envelope and L59
         51073 ENVELOPE
          9120 ENVELOPES
         56423 ENVELOPE
                 (ENVELOPE OR ENVELOPES)
L66
             1 ENVELOPE AND L59
=> D L66 IBIB ABS
L66 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                         2004:905910 CAPLUS
DOCUMENT NUMBER:
                         141:378844
TITLE:
                         antigen-expressing pestivirus replicons or recombinant
                         therapeutic uses
INVENTOR(S):
                         Rehermann, Barbara; Racanelli, Vito; Behrens,
                         Sven-Erik; Tautz, Norbert
PATENT ASSIGNEE(S):
SOURCE:
                         PCT Int. Appl., 143 pp.
```

Inducing a T cell response with recombinant

pestivirus replicon-transfected dendritic cells, and

The Government of the United States of America as

Represented by the Secretary of Health and Human Services, USA; Justus-Liebig-Universitaet Giessen

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATEN'	T NO.			KIN:	D	DATE			APPL	ICAT	ION 1	NO.		D	ATE	
WO 20	040923	86		A2	_	2004	1028	,	WO 2004-US11018					20040410		
WO 20	040923	86		A3		2005	0512									
W	: AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
	CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,
	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	ŪG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw
RI	W: BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,
	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,
	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,
	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,
	TD,	TG														
RI	TJ, W: BW, BY, ES, SK,	TM, GH, KG, FI, TR,	TN, GM, KZ, FR,	TR, KE, MD, GB,	TT, LS, RU, GR,	TZ, MW, TJ, HU,	UA, MZ, TM, IE,	UG, SD, AT, IT,	US, SL, BE, LU,	UZ, SZ, BG, MC,	VC, TZ, CH, NL,	VN, UG, CY, PL,	YU, ZM, CZ, PT,	ZA, ZW, DE, RO,	ZM, AM, DK, SE,	ZV AZ EI SI

PRIORITY APPLN. INFO.: US 2003-462165P P 20030411 US 2003-463097P The present disclosure relates to compds. and methods of generating T

cell-mediated immunity, particularly T cell-mediated immunity to Hepatitis C Virus (HCV), Respiratory Syncytial Virus (RSV), Human Immunodeficiency Virus (HIV), Mycobacterium tuberculosis, Plasmodium falciparum, and tumors. The method includes (a) administering to the subject an amount of an antigen presenting cell (such as dendritic cell) sufficient to induce the response in the subject, wherein the antigen

presenting cell expresses the recombinant antigen from a pestivirus replicon or (b) directly administering the recombinant antigen expressing replicon in form of RNA or DNA.

=> D L65 IBIB ABS

L65 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:293595 CAPLUS

DOCUMENT NUMBER: 120:293595

TITLE: Thio group-containing antigen or peptide treated with

reducing agent for antibody determination

INVENTOR(S): Takei, Toshinori; Inoe, Juzo; Asahina, Aki; Tokita,

Susumu

PATENT ASSIGNEE(S): Dainabot Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06074956	A2	19940318	JP 1992-270684	19920828
JP 3225468	B2	20011105		

PRIORITY APPLN. INFO.: JP 1992-270684 19920828

A reducing agent is used for preventing oxidation of (immobilized) thio group-containing antigen or peptide. The (immobilized) thio group-containing antigen or peptide is used as a test reagent for antibody determination. In a sep. experiment, erythrocyte-immobilized hepatitis C virus (HCV) antigen was treated with DTT, 2-mercaptoethanol, or glutathione and used for determining antibody to HCV core antigen, NS3, or NS4 protein, resp.

=> D L64 IBIB ABS

L64 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:161617 CAPLUS

DOCUMENT NUMBER: 120:161617

TITLE: Process for the determination of peptides

corresponding to immunologically important epitopes and their use in a process for determination of antibodies, or biotinylated peptides corresponding to immunologically important epitopes, a process for

preparing them and compositions containing them

INVENTOR(S): De Leys, Robert

PATENT ASSIGNEE(S): N.V. Innogenetics S.A., Belg.

SOURCE: PCT Int. Appl., 133 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	CENT :	NO.			KIN	D	DATE			APPL	ICAT	ION I	NO.		D	ATE		
						-		-										
WO	9318	054			A2		1993	0916		WO 1	993-	EP51	7		1.9	9930:	308	
WO	9318	054			A 3		1994	0217										
	W:	ΑU,	BB,	BG,	BR,	CA,	CZ,	FI,	HU,	JP,	KP,	KR,	LK,	MG,	MN,	MW,	NO,	
		ΝZ,	ΡĻ,	PT,	RO,	RU,	SD,	SK,	UA,	US								
	RW:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	MR,	SN,	TD,	TG				
ΕP	5647	46			A1		1993	1013		EP 1	992-	4005	98		19	9920	306	
	R:	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LI,	LU,	MC,	NL,	PT,	SE
CA	2102	301			AA		1993	0907		CA 1	993-	2102	301		1:	9930	308	

	9337463	A1		AU 1993-37463	19930308
	671623	В2			
	589004	A1	19940330	EP 1993-906490	19930308
EP	589004	B1	19990506		
EF	2 589004	В2	20040506		
	R: AT, BE, CH	, DE,	DK, ES, FR,	GB, GR, IE, IT, LI	, LU, MC, NL, PT, SE
JF	06505806	Т2	19940630	JP 1993-515334	19930308
JF	3443809	B2	20030908		
BF	9305435	Α	19941227	BR 1993-5435	19930308
EF	891982	A2	19990120	EP 1998-202777	19930308
EP	891982	A3	20000412		
	R: AT, BE, CH	, DE,	DK, ES, FR,	GB, GR, IT, LI, LU	, NL, SE, MC, PT, IE
ΓA	179716	E	19990515		
ES	2133392	Т3	19990916	ES 1993-906490	19930308
US	5 5891640	Α	19990406	US 1993-146028	19931122
US	6165730	Α	20001226	US 1996-723425	19960930
US	6210903	В1	20010403	US 1998-112206	19980709
US	6667387	B1	20031223	US 2000-576824	20000523
US	6709828	B1	20040323	US 2000-680497	20001006
US	6649735	B1	20031118	US 2001-790497	20010223
JE	2004002379	A2	20040108	JP 2003-107716	20030411
US	2005049398	A1	20050303	US 2003-621675	20030718
PRIORIT	Y APPLN. INFO.:			EP 1992-400598	A 19920306
				EP 1993-906490	A3 19930308
				JP 1993-515334	A3 19930308
				WO 1993-EP517	A 19930308
				US 1993-146028	A3 19931122
				US 1996-723425	A3 19960930
				US 1998-112206	A3 19980709
				US 2000-576824	
AB Pe	eptides correspor	ding t	to immunol.	important epitopes	(of bacterial or

viral proteins) are determined by (1) preparing peptides corresponding to fragments of the protein of interest, (2) biotinylating the peptides, (3) binding the biotinylated peptides to a solid phase via interation with avidin or streptavidin, and (4) measuring antibodies which bind to the individual peptides. Processes for biotinylation of the peptides and for determination of antibodies to hepatitis C virus (HCV), to HIV, and to HTLV-I and -II are also disclosed. HCV, HIV, HTLV-I, and HTLV-II peptide sequences are included. Use of the biotinylated peptides in the process of the invention makes the anchorage of the peptides to a solid support such that it leaves their essential amino acids free to be recognized by antibodies. In studies determining binding of unbiotinylated peptides directly onto the wells of a polystyrene microtiter plate and binding of biotinylated peptides to wells coated with streptavidin, results demonstrated that antibody binding to the biotinylated peptide is superior to antibody binding to peptide coated directly onto the plastic.

=> D L63 IBIB ABS 1-6

L63 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:924104 CAPLUS

DOCUMENT NUMBER: 136:52716

TITLE: HCV antigen/antibody combination assay

INVENTOR(S): Chien, David Y.; Arcangel, Phillip; Tandeske, Laura;

George-Nasciemento, Carlos; Coit, Doris; Medina-Selby,

Angelica

PATENT ASSIGNEE(S): Chiron Corporation, USA SOURCE: PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

Engi

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATÉ

```
WO 2001096875
WO 2001096875
WO 2001096875
                                                               WO 2001-US19369
                                              20011220
                                    A2
                                                                                                 20010614
                                    A3
                                              20030828
                                    C2 20020815
            W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
                  DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
                  MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
                  TR, TT, UA, UG, US, UZ, VN, YU, ZW
             RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,
                  KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,
                  IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
                  GW, ML, MR, NE, SN, TD, TG
                                                           CA 2001-2412000
US 2001-881654
       CA 2412035
                                             20011220
                                    AΑ
                                                               CA 2001-2412035
                                                                                                 20010614
       US 2002146685
                                              20021010
                                    A1
                                                                                                 20010614
       US 6632601
                                    B2
                                             20031014
       US 2002192639
                                                           US 2001-881239
                                    A1
                                             20021219
                                                                                                20010614
      US 6630298
                                    B2
                                             20031007
                                          20031022 EP 2001-952160
       EP 1354204
                                    A2
                                                                                                20010614
            R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                  IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
       BR 2001011731
                            Α
                                            20040210
                                                            BR 2001-11731
                                                                                                20010614
                                   Т2
                                          20040304

      JP 2004506878
      T2
      20040304
      JP 2002-510953

      NO 2002005878
      A
      20030212
      NO 2002-5878

      BG 107441
      A
      20040130
      BG 2003-107441

      US 2004063092
      A1
      20040401
      US 2003-637323

      US 6797809
      B2
      20040928

      US 200406822
      A1
      20040520
      US 2003-643853

      US 2004265801
      A1
      20041230
      US 2004-899715

       JP 2004506878
                                                              JP 2002-510953
                                                                                               20010614
                                                                                               20021206
                                                                                               20030107
                                                                                                20030808
                                                                                                20030819
                                                                                                20040726
PRIORITY APPLN. INFO.:
                                                              US 2000-212082P
                                                                                          P 20000615
                                                              US 2001-280811P P 20010402

US 2001-280867P P 20010402

US 2001-881239 A3 20010614

US 2001-881654 A3 20010614

WO 2001-US19369 W 20010614
                                                               US 2003-637323 A1 20030808
      An HCV core antigen and NS3/4a antibody
```

AB combination assay that can detect both HCV antigens and antibodies present in a sample using a single solid matrix, is provided, as well as immunoassay solid supports for use in the assay.

L63 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:620530 CAPLUS

DOCUMENT NUMBER:

131:240077

TITLE:

Carrier and solid support for

immunoassay

INVENTOR(S):

Kumasawa, Toshiaki; Tagami, Hiroaki; Kitani,

Yoshiyasu; Yokohama, Hiroaki; Mori, Shuji; Matsumori,

Shigeru

PATENT ASSIGNEE(S):

SRL K. K., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11264823	A2	19990928	JP 1998-372946	19981228
PRIORITY APPLN. INFO.:			JP 1997-368381 A	19971227

Carrier compns. comprising silicon compound-coated glass fiber, quartz, or AB ceramic are used for reducing nonspecific binding with serum proteins, e.g. IgG, in immunoassay of antigen or antibody. The silicon compound is dialkyl-polysiloxane (e.g. dimethylpolysiloxane), or a hydrophobic silane: alkyltrialkoxysilane, vinyltrialkoxysilane, or phenyltrialkoxysilane (e.g.

octadecyltriethoxysilane). A such porous carrier comprising glass fiber coated with dimethylpolysiloxane was prepared for immobilization of hepatitis C core antigen for immunodiagnosis of anti-HCV pos. sera.

L63 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:449181 CAPLUS

DOCUMENT NUMBER: 131:127390

TITLE: Immunoassay using glass fiber as solid

Kumasawa, Toshiaki; Tagami, Hiroaki; Kitani, Yoshiyasu INVENTOR(S):

PATENT ASSIGNEE(S): SRL K. K., Japan

Jpn. Kokai Tokkyo Koho, 4 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. DATE APPLICATION NO. KIND DATE _____ ---------_____ JP 11194129 19990721 JP 1997-368396 19971227 A2 PRIORITY APPLN. INFO.: JP 1997-368396 19971227

Glass fiber is treated with water-soluble organic solvent and dried for use as solid support of immuno-reactive substance in immunoassay. The water-soluble organic solvent is selected from C1-4 fatty alcs. or fatty ketones, e.g. propanol or acetone. Thus, glass fiber membrane was treated with isopropanol, dried, and sensitized with hepatitis C virus core antigen for detecting anti-HCV core antibody in serum. Similarly, acetone-treated glass fiber membrane was sensitized with Treponema pallidum antigen for detecting TP-pos. serum.

L63 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:449180 CAPLUS

DOCUMENT NUMBER: 131:129038

TITLE: Immobilization of antigen or antibody on carrier or

solid support for immunoassay

INVENTOR(S): Kumasawa, Toshiaki; Tagami, Hiroaki; Kitani, Yoshiyasu

PATENT ASSIGNEE(S):

SRL K. K., Japan Jpn. Kokai Tokkyo Koho, 4 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11194128	A2	19990721	JP 1997-368018	19971227
PRIORITY APPLN. INFO.:			JP 1997-368018	19971227

AΒ Solid support or carrier is treated with water-soluble organic solvent for immobilization of antigen or antibody. The water-soluble organic solvent is propanol, and the solid support is multi-well microplate of polystyrene. Thus, polystyrene microplate was treated with 2-propanol for immobilization of hepatitis C virus core antigen for detecting serum antibody specific for HCV core antigen.

L63 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:743751 CAPLUS

DOCUMENT NUMBER: 128:47287

TITLE: C type hepatitis virus disease diagnostic agent

INVENTOR(S): Takahama, Yoichi; Shiraishi, Junichi Toa Medical Electronics Co., Ltd., Japan PATENT ASSIGNEE(S):

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	TENT NO.			KINI)	DATE	AP	PLICATION NO.		DATE
	JP	09297141			A2		19971118	JP	1996-112442		19960507
	TW	562927			В		20031121	TW	1997-86105490		19970426
	US	6379886			В1		20020430	ับร	1997-850328		19970502
	EP	806669			- A2		19971112.	EP	1997-107368		19970505
	EP	806669			A3		19971126				
	ΕP	806669			B1		20020410				
		R: BE,	DE,	FR,	GB,	IT					
	CN	1170875			Α		19980121	CN	1997-109798	•	19970506
	US	20020816	30		A1		20020627	US	2001-28172		20011221
PRIO	RIT	APPLN.	INFO	. :				JP	1996-112442	Α	19960507
								US	1997-850328	A1	19970502

AB Hepatitis C virus antigen or carrier protein conjugate is coated on a solid support and used for detecting anti-hepatitis C virus antibody and for diagnosing HCV infection. The HCV antigen is core antigen, NS3 antigen, NS4 antigen, or NS5 antigen, and the carrier protein is bovine serum albumin, egg white albumin or hemocyanin.

L63 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1994:625871 CAPLUS

DOCUMENT NUMBER:

121:225871

TITLE:

Immunoassay with solid support

-immobilized and magnetic particle-immobilized same

antigen

INVENTOR(S):

Kaneko, Yasunobu

PATENT ASSIGNEE(S):

Olympus Optical Co, Japan Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06186231	A2	19940708	JP 1992-341808	19921222
PRIORITY APPLN. INFO.:			JP 1992-341808	19921222

AB The title method uses an immobilized antigen on the inner wall of a reaction chamber and an immobilized same antigen on a magnetic carrier particle (e.g. gelatin). Thus, for determination of anti-hepatitis C virus (HCV) antibody, HCV core antigen was immobilized on the well bottom of a plate and sep. on gelatin particle. Use of the magnetic particle-immobilized HCV core antigen exhibited higher sensitivity than with a magnetic particle-immobilized anti-human IgG antibody.

=> D L60 IBIB ABS 1-4

L60 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1999:498585 CAPLUS

DOCUMENT NUMBER:

131:167375

TITLE:

Superoxide dismutase fusion protein-binding reagent as

absorbent to remove nonspecific reaction in

immunoassay

INVENTOR(S):

Kawado, Katsuhito; Nakamura, Masato

PATENT ASSIGNEE(S):

Fujirebio, Inc., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE -----____ -----A2 19990810 JP 1998-32372 JP 11218534 19980130 JP 3520757 B2 20040419 PRIORITY APPLN. INFO.: JP 1998-32372 19980130

OTHER SOURCE(S): MARPAT 131:167375

Aminocarboxylic acids, e.g. s-aminocaproic acid, p-(aminomethyl)cyclohexanecarboxylic acid and lysine, are provided as absorbent for immunoassay to reduce nonspecific binding of superoxide dismutase-antigen fusion protein. Thus, fusion protein comprising superoxide dismutase and hepatitis C virus core antigen C200 protein was prepared by mol. cloning and coated on gelatin particles for immunoassay of anti-HCV antibody in serum sample in the presence of above mentioned aminocarboxylic acids.

L60 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:554170 CAPLUS

DOCUMENT NUMBER: 129:310488

TITLE: Plasma hydroxy metronidazole/metronidazole ratio in

anti-HCV carriers with and without apparent

liver disease

AUTHOR(S): Da Silva, C. M. F.; David, F. L.; Muscara, M. N.;

Sousa, S. S.; Ferraz, J. G. P.; De Nucci, G.;

Polimeno, N. C.; Pedrazzoli, J., Jr.

Folimeno, N. C., Fediazzott, U., Ul.

CORPORATE SOURCE: Clinical Pharmacology Unit, Sao Francisco University

Medical School, Braganca Paulista, 218 12900-000,

Brazil

SOURCE: British Journal of Clinical Pharmacology (1998),

46(2), 176-180

CODEN: BCPHBM; ISSN: 0306-5251

PUBLISHER: Blackwell Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

Our objective was to evaluate plasma hydroxy-metronidazole/metronidazole ratio as a dynamic liver function test in HCV-infected individuals with/without liver disease, in the absence of liver cirrhosis. Metronidazole was administered i.v. in healthy volunteers, asymptomatic anti-HCV-pos. blood donors, and in chronic hepatitis C patients. Serol. to HCV was determined by a second generation assay and confirmed by gelatin particle agglutination test using recombinant antigens C22-3 and C200. Plasma concentration of metronidazole and hydroxy-metronidazole was measured by high performance liquid chromatog. in samples collected 5, 10, 20 and 30 min following the end of metronidazole infusion. Chronic hepatitis C patients had abnormal liver enzymes, while healthy volunteers and anti-HCV-pos. blood donors had normal liver biochem. tests. Plasma metronidazole concentration was similar in all groups studied. Plasma hydroxy-metronidazole/metronidazole ratio was significantly reduced in HCV-infected subjects, an effect observed 10 min after the end of drug infusion. Metronidazole clearance is impaired in anti-HCV-pos. blood donors and chronic hepatitis C patients, indicating that HCV is capable of affecting liver function at early stages of the disease. The metronidazole clearance test can detect impaired liver function in HCV-infected individuals . even in the absence of liver cirrhosis.

REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:625871 CAPLUS

DOCUMENT NUMBER: 121:225871

TITLE: Immunoassay with solid support-immobilized and

magnetic particle-immobilized same antigen

INVENTOR(S): Kaneko, Yasunobu

PATENT ASSIGNEE(S): Olympus Optical Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 06186231 A2 19940708 JP 1992-341808 19921222
PRIORITY APPLN. INFO.: JP 1992-341808 19921222

The title method uses an immobilized antigen on the inner wall of a reaction chamber and an immobilized same antigen on a magnetic carrier particle (e.g. gelatin). Thus, for determination of anti-hepatitis C virus (HCV) antibody, HCV core antigen was immobilized on the well bottom of a plate and sep. on gelatin particle.

Use of the magnetic particle-immobilized HCV core antigen exhibited higher sensitivity than with a magnetic particle-immobilized anti-human IgG antibody.

L60 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1992:21470 CAPLUS

DOCUMENT NUMBER:

116:21470

TITLE:

Synthetic peptide and reagent for analysis of HCV (hepatitis C virus) antibodies using the

same

INVENTOR(S):

Hayashi, Nakanobu; Hashimoto, Masakatsu

PATENT ASSIGNEE(S):

Shima Kenkyusho Y. K., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF
Patent

DOCUMENT TYPE: LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
JP 03190898	A2	19910820	JP 1989-329746	19891221
PRIORITY APPLN. INFO.:			JP 1989-329746	19891221

AB A peptide having the common antigen determinant with HCV virus, i.e. H-Ile-Ile-Pro-Asp-Arg-Glu-Val-Leu-Tyr-Arg-Glu-Phe-Asp-Glu-Met-Glu-Glu-Cys-Ser-Gln-His-Leu-Pro-Tyr-Ile-Glu-Gln-Gly-Met-Met-Leu-Ala-Glu-Gln-Phe-Lys-Gln-Lys-Ala-Leu-Gly-Leu-OH (I), is prepared by the solid phase method on Fmoc- or BOC-Leu-bound resin (Fmoc = 9H-fluoren-9-ylmethoxycarbonyl, BOC = Me3CO2C) using Fmoc-protected amino acids. A reagent for analyzing HCV antibodies by the latex agglutination turbidimetry or light scattering photometry comprises (A), a solid reagent (i.e. I immobilized through phys. absorption or chemical through spacers on a solid support such as a microtiter reaction plate, beads, a sheet, a porous membrane, or magnetic latex, more preferably (high-d.) latex particles, immobilized erythrocyte, gelatin particles, or immobilized bacteria) and (B) human globulin antibodies (e.g. human IgG or anti-human IgM) labeled with a radioisotope, enzyme, biotin, fluorescent dye, or Eu chelate or (C) a similarly labeled I. I of high purity can be prepared in large quantity at lower cost than the conventional HCV-derived antigen and is easily immobilized on the support and the immobilized I shows good reaction with the ${\tt HCV}$ antibodies of ${\tt HCV}$ patients with high sensitivity and specificity.

=> D L61 IBIB ABS 1-19

L61 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:41450 CAPLUS

DOCUMENT NUMBER: 140:87668

TITLE: Therapeutic imidazole compounds, and human cellular

proteins casein kinase I α , δ , and

 ϵ as targets for medical intervention against

hepatitis C virus infection

INVENTOR(S): Salassidis, Konstadinos; Kurtenbach, Alexander; Daub,

Henrik; Obert, Sabine

PATENT ASSIGNEE(S): Axxima Pharmaceuticals A.-G., Germany; Greff, Zoltan;

Keri, Gyoergy; Oerfi, Laszlo; Waczek, Frigyes

SOURCE: PCT Int. Appl., 89 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. _____ --------------_____ A2 WO 2003-EP7286 WO 2004005264 20040115 20030707 20040304 A3 WO 2004005264 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG 20050525 EP 2003-762649 A2 20030707 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK EP 2002-15096 A 20020705 PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 140:87668

The invention describes imidazole compds. which are particularly useful against Hepatitis C Virus infections and diseases associated therewith. Furthermore, the invention relates to the human cellular proteins casein kinase I α , δ , and ϵ as targets for medical intervention against Hepatitis C Virus (HCV) infections and diseases. In addition, the invention refers to a method for the identification of compds. which are useful for the prophylaxis and/or treatment of infections and diseases caused by Hepatitis C Virus, methods for treating Hepatitis C Virus infections and diseases, as well as pharmaceutical compns. useful for the prophylaxis and/or treatment of Hepatitis C Virus infections and diseases. Moreover, the invention discloses antibodies, oligonucleotides, and specific compds. which are effective for the detection, prophylaxis and/or treatment of infections and diseases caused by Hepatitis C Virus. In addition, the invention describes solid supports useful for the identification of compds. suitable for preventing and/or treating infections and diseases caused by Hepatitis C Virus.

L61 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:511528 CAPLUS

DOCUMENT NUMBER:

139:83444

TITLE:

Identification of human cellular protein kinases, metalloproteases and phosphatases as targets for medical intervention against hepatitis C virus infections, and their use for drug screening and

WO 2003-EP7286

W 20030707

HCV infection diagnosis

INVENTOR(S):

Salassidis, Konstadinos; Schubart, Daniel; Gutbrod, Heidrun; Mueller, Stefan; Kraetzer, Friedrich; Obert,

Sabine

PATENT ASSIGNEE(S):

Axxima Pharmaceuticals A.-G., Germany

SOURCE:

PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE ______ _____ ____ _____ A2 WO 2002-EP14578 20030703 20021219 WO 2003054228 WO 2003054228 A3 20040115 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG A1 20050512 US 2004-872645 us 2005100887 20040621 P 20011221 PRIORITY APPLN. INFO.: US 2001-341757P A2 20021219 WO 2002-EP14578

The present invention relates to human cellular protein kinases, AB metalloproteases and one phosphatase: β -adrenergic receptor kinase 1 (NM 001619), mitogen activated protein kinase activated protein kinase 5 (AF032437), insulin-stimulated protein kinase 1 (U08316), discoidin domain receptor family member 1 (NM 013994), protein kinase C, μ (X75756), protein Kinase C, θ (L01087), AMP-activated protein kinase β 2 subunit (AJ224538), JNK2 (U09759), human p21-activated protein kinase 2 (U24153), cyclin-dependent kinase 4 (U37022), MEK5 (U25265), MKP-L (NM 007026), ADAM22 (NM 016351), and ADAM17 (U92649) as potential targets for medical intervention against hepatitis C virus (HCV) infections. The present invention relates also to a method for the detection of compds. useful for prophylaxis and/or treatment of hepatitis C virus infections, a method for detecting hepatitis C virus infections in an individual or in cells. Mono- or polyclonal antibodies are disclosed effective for the treatment of HCV infections together with methods for treating Hepatitis C virus infections or for the regulation of Hepatitis C virus production and/or replication wherein said antibodies may be used. Finally the present invention relates to a solid support useful for detecting hepatitis C virus infections or for screening compds. useful for prophylaxis and/or treatment of HCV

L61 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:373836 CAPLUS

DOCUMENT NUMBER: 138:381152

TITLE: Modified HCV core protein and diagnostic use

for detection of anti-HCV antibodies

INVENTOR(S):
Bahl, Chander

PATENT ASSIGNEE(S): Ortho-Clinical Diagnostics, Inc., USA

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT NO.	KIND DA	TE APPLICATION NO.	DATE
EP 1310512	A2 20	030514 EP 2002-257656	20021105
EP 1310512	A3 20	040121	
R: AT, BE, CH,	DE, DK, E	S, FR, GB, GR, IT, LI, LU, NL	, SE, MC, PT,
IE, SI, LT,	LV, FI, R	O, MK, CY, AL, TR, BG, CZ, EE,	, SK
US 2003152965	A1 20	030814 US 2002-268569	20021010
BR 2002004599	A 20	030916 BR 2002-4599	20021105
JP 2003279579	A2 20	031002 JP 2002-321298	20021105
CA 2408174	AA 20	030511 CA 2002-2408174	20021106

The present invention describes peptides and recombinant proteins containing AΒ Hepatitis C virus core protein sequence in which one or more of the amino acids have been modified or deleted to remove the ability of these proteins to bind to specific anti-HCV murine monoclonal antibodies. The deletions and modifications are designed as to maintain the ability of this protein to be used in immunoassays used for the detection of anti-HCV antibodies in individuals infected with HCV.

L61 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:905731 CAPLUS

DOCUMENT NUMBER: 138:14152

TITLE: Preparation of enzymic ribonucleic acid peptide

conjugates as antitumor and antiviral agents and

compositions for cellular delivery Beigelman, Leonid; Matulic-Adamic, Jasenka; Vargeese, INVENTOR(S):

Chandra; Karpeisky, Alexander; Blatt, Lawrence;

APPLICATION NO.

DATE

Shaffer, Christopher

DATE

Ribozyme Pharmaceuticals, Inc, USA PATENT ASSIGNEE(S):

KIND

PCT Int. Appl., 220 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 169

PATENT INFORMATION:

PATENT NO.

						•			•								
WO	2002	0941	85		A2	- :	2002	1128			2002-				2	 0020	520
	W:										, BG,						
											, EE,						
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE	, KG,	KP,	KR,	KZ,	LC,	LK,	LR,
											, MW,						
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK	, SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZM,	ZW	, AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,
		ТJ,	MT														
	RW:										, TZ,						
											, IT,						
		BF,					CM,	GA,			, GW,						
	9851				A1		1998			AU	1998-	5181	9		1	9980	112
	7296				B2		2001										
	9939				ΑI		1999				1999-					9990	
	7691				B2		2004				2000-					0000	
	2003		85		A1		2003				2002-					0020	
	2447				A1 AA T2		2002				2002-					0020	
	2005				Т2		2005				2002-					0020	
	2003				A1		2003				2002-					0020	
	2004				A1		2004				2003-					0030	
	2004				A 1		2004				2003-					0030	
	2005				A1		2005				2003-					0031	
	2005				A1		2005				2004-					0040	
	2004				A1		2004				2004-					0040	
	2005				A1		2005				2004-					0040	
	2005				A1		2005				2004-					0040	
	2005						2005				2004-					0040	
	2005				A1		2005				2004-					0040	
	2005				A1		2005				2004-					0040	
	2005				A1		2005				2004-						
	2005				A1		2005				2004-					0040	
	2005				A1		2005				2004-					0040	
	2005				A1		2005				2004-					0040	
	2005				A1		2005				2004-				_	0040	
	2005				A1		2005				2004-					0040	
US	2005	1245	6/		A1		2005	0609		US	2004-	8832	ΤR		2	0040	10T

US	2004-888226		20040700
			20040709
US	2004-892922		20040716
US	2004-894475		20040719
US	2004-923640		20040819
US	2004-923115		20040820
US	2001-292217P	P	20010518
US	2001-306883P	P	20010720
US	2001-311865P	P	20010813
US	2002-362016P	P	20020306
AU	1995-26422	A3	19950518
US	1996-623891	Α	19960325
AU	1996-76662	A3	19961025
US	2001-294140P	P	20010529
US	2001-296249P	P	20010606
US	2001-306833P	P	20010720
US	2001-318471P	P	20010910
US	2002-358580P	P	20020220
US	2002-363124P	P	20020311
US	2002-374722P	P	20020422
MO.		w	20020520
US			
	2002-157580	A2	20020529
	2002-US16840	A2	20020529
US	2002-163552	A2	20020606
US	2002-386782P	P	20020606
US	2002-206705	A2	20020726
US	2002-225023	A2	20020821
US	2002-406784P	P	20020829
US	2002-408378P	P	20020905
US	2002-409293P	P	20020909
US			20020910
	2002-238700	A2	
US	2002-431105P	P	20021205
US	2003-440129P	P	20030115
WO	2003-US4123	A2	20030211
WO	2003-US4397	A2	20030213
WO	2003-US5028	A2	20030220
WO	2003-US5162	A2	20030220
WO	2003-US5190	A	20030220
WO	2003-US5346	A2	20030220
US	2003-417012	A1	20030220
US	2003-417012	A2	20030410
WO		A2	
US	2003-422704	A2	
US	2003-427160	A2	20030430
US	2003-444853	A2	20030523
US	2003-486729P	P	20030711
US	2003-652791	A2	20030829
US	2003-693059	A2	20031023
US	2003-698311	A2	20031023
US	2003-720448	A2	20031124
US	2003-727780	A2	20031203
US	2004-757803	A2	20040114
US	2004-543480P	P	20040210
US	2004-780447	A2	20040213
US	2004-825485	A2	20040415
US	2004-826966	A2	
WO	2004-US13456	A2	20040430
WO	2004-0515450	7.2	20040430

WO 2004-US16390 A2 20040524

US 2005124568

US 2005124569

US 2005070497

US 2005136436

US 2005079610

PRIORITY APPLN. INFO.:

20050609

20050609

20050331

20050623

20050414

A1

A1

A1

A1

A1

AB This invention features peptide nucleotide conjugates I wherein each R1-R8 are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, or a protecting group, each "n" is independently an integer from 0to about 200, R9 is a straight or branched chain alkyl, substituted alkyl, aryl, or substituted aryl, and R2 is a phosphorus containing group, nucleoside, nucleotide, small mol., nucleic acid, or a solid support comprising a linker., degradable linkers, compns., methods of synthesis, and applications thereof, including folate, galactose, galactosamine, N-acetyl galactosamine, PEG, phospholipid, peptide and human serum albumin (HAS) derived conjugates of biol. active compds., including antibodies, antivirals, chemotherapeutics, peptides, proteins, hormones nucleosides, nucleotides, non-nucleosides, and nucleic acids including enzymic nucleic acids, DNAzymes, allozymes, antisense, dsRNA, siRNA, triplex oligonucleotides, 2,5-A chimeras, decoys and aptamers. Thus, 1-O-(4-monomethoxytrityl)-N-(12'-hydroxydodecanoyl-2-acetamido-3,4,6tri-O-acetyl-2-deoxy-3-D-galactopyranose)-D-threoninol 3-0-(2-cyanoethyl, N, N-diisopropylphosphorami-dite) was prepared and incorporated into RNA. A method of treating a cancer patient, comprising contacting cells of patient wherein said cancer is breast cancer, lung cancer, colorectal cancer, brain cancer, esophageal cancer, stomach cancer, bladder cancer, pancreatic cancer, cervical cancer, head and neck cancer, ovarian cancer, melanoma, lymphoma, glioma, or multidrug resistant cancers and/or viral infections including HIV, HBV, HCV, CMV, RSV, HSV, poliovirus, influenza, rhinovirus, west nile virus, Ebola virus, foot and mouth virus, and papilloma.

L61 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:862872 CAPLUS

DOCUMENT NUMBER:

137:333986

TITLE:

Biochip for genotyping 5'-noncoding region of

hepatitis C virus genes

INVENTOR(S):

Ye, Bangce

PATENT ASSIGNEE(S):

Zhejiang Jiangnan Biological Science & Technology Co.,

Ι

Ltd., Peop. Rep. China

SOURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.

CODEN: CNXXEV

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinaga

FAMILY ACC. NUM. COUNT:

Chinese

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

CN 1335410 A 20020213 CN 2000-122162 20000723

PRIORITY APPLN. INFO.: CN 2000-122162 20000723

The invention relates to DNA chip for genotyping hepatitis C virus (HCV). The invention relates to design of DNA probes based on 5'-noncoding region of HCV genes. The said probes is immobilized on solid support made of glass, silicon, macromol. compds. and membrane.

L61 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2001:924104 CAPLUS

DOCUMENT NUMBER: 136:52716

TITLE: HCV antigen/antibody combination assay

INVENTOR(S): Chien, David Y.; Arcangel, Phillip; Tandeske, Laura;

George-Nasciemento, Carlos; Coit, Doris; Medina-Selby,

Angelica

PATENT ASSIGNEE(S):

SOURCE:

Chiron Corporation, USA PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PA	CENT	NO.			KIN	D	DATE			APPL	ICAT:	ION I	NO.		D	ATE	
WO	2001 2001 2001	0968	75					0828	1	WO 2	001-	JS19	369		2	0010	 614
WO	Z001						BA,		BG.	BR.	BY.	CA.	CH.	CN.	CII.	C7.	DE
	•••						GD,										
							LC,										
							PT,										
							UZ,								•	_ ,	
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZW,	AM,	ΑZ,	BY,	K
							AT,										
		ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN
		GW,	ML,	MR,	NE,	SN,	TD,	TG									
	2412				AA		2001			CA 2	001-	2412	035		2	0010	614
	2002								1	US 2	001-	8816	54		2	0010	614
	6632						2003										
	2002								1	US 2	001-	8812	39		2	0010	614
	6630						2003								_		
EP	1354						2003				001-					0010	
	R:						ES,					ъι,	LU,	NL,	SE,	MC,	Ρ'.
חח	2001	•	•	•	•	•	RO, 2004	•	•		001-	1172	1		2	0010	61
	2001										001-						
											002-					0010	
BG	2002 1074	41	, 0		A		2003	0130			003-						
	2004										003-					0030	
	6797						2004			-					_		
US	2004	0968								US 2	003-	6438	53		2	0030	819
	2004						2004				004-					0040	
ORIT	Y APP	LN.								US 2	000-	2120	82P		P 2	0000	615
									•	US 2	001-	2808	11P		P 2	0010	402
									•	US 2	001-	2808	67P		P 2	0010	402
											001-						
											001-					0010	-
				•					1		001-					0010	

AB An **HCV** core antigen and NS3/4a antibody combination assay that can detect both **HCV** antigens and antibodies present in a sample using a single solid matrix, is provided, as well as immunoassay solid supports for use in the assay.

L61 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2

2001:924100 CAPLUS

DOCUMENT NUMBER:

136:52715

TITLE:

Immunoassays for anti-HCV antibodies

INVENTOR(S):

Chien, David Y.; Arcangel, Phillip; Tandeske, Laura; George-Nasciemento, Carlos; Coit, Doris; Medina-Selby,

US 2003-637323

A1 20030808

Angelica

PATENT ASSIGNEE(S):

Chiron Corporation, USA PCT Int. Appl., 92 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PA	rent :	NO.			KIN	D	DATE			APF	LICAT	ION	NO.			DATE	
	2001				A2		2001	1220	1		2001-						
	W:	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HF	CA, R, HU, C, LU,	ID,	IL,	IN,	IS	, JP,	ΚE,
		TT,	UA,	ŪĠ,	US,	UZ,	VN,	YU,	ZW		SG,	-	•				
	R₩:	ΚΖ, ΙΕ,	MD, IT,	RU, LU,	TJ, MC,	TM,	AT, PT,	BE, SE,	CH,	CY	TZ, Z, DE, T, BJ,	DK,	ES,	FI,	FR	, GB,	GR,
CA	2413	GW, 003	ML,	MR,	NE, AA	SN,	TD, 2001:	TG 1220	(CA	2001- 2001-	2413	003			20010	614
US	6632	601			В2		2003	1014									
US	6630	298			B2		2003	1007			2001-						
EP		AT,		CH,	DE,						2001- R, IT,						
BR JP	2001 2004	0116 5101	82 33	·	A T2		2004 2004 2004	0402	1	JP	2001- 2002-	5109	48	•		20010	614
US	2004 6797 2004	809			В2		2004	0928			2003-						
	2004	2658	01				2004) 2004)		1	US US	2003- 2004- 2000-	8997 2120	53 15 82P		P	20030 20040 20000	819 726 615
TRIORIT	i Aii	III.	INTO	• •					,	US	2004- 2000- 2001- 2001- 2001-	88TZ	39		A3	2 0010	614
AB um	ız imm	unos	ccau	s co	mnri	sina	, an l	N C 3 / /	1	WO US	2001- 2001- 2003-	US19 6373	156 23		W A1	20010 20030	614

AΒ HCV immunoassays comprising an NS3/4a conformational epitope and a multiple epitope fusion antigen are provided, as well as immunoassay solid supports for use with the immunoassays.

L61 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:380605 CAPLUS

DOCUMENT NUMBER:

135:15051

TITLE:

Simultaneous detection of HBV, HCV and HIV

in plasma samples using a multiplex capture assay by

PCR and RT-PCR

INVENTOR(S):

Ji, Jiuping; Manak, Mark; Wu, Kezuo; Chen, Xiuli;

Yang, Lijuan

PATENT ASSIGNEE(S):

USA

SOURCE:

PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001036442 WO 2001036442	A1 C2	20010525 20020725	WO 2000-US31738	20001117
W: AE, AG, CR, CU, HU, ID, LU, LV, SD, SE,	AL, AM, AT CZ, DE, DK IL, IN, IS MA, MD, MG SG, SI, SK	T, AU, AZ, BA C, DM, DZ, ER G, JP, KE, KC G, MK, MN, MV K, SL, TJ, TN	A, BB, BG, BR, BY, E, ES, FI, GB, GD, G, KP, KR, KZ, LC, M, MX, MZ, NO, NZ, M, TR, TT, TZ, UA, Z, MD, RU, TJ, TM	GE, GH, GM, HR, LK, LR, LS, LT, PL, PT, RO, RU,

```
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     CA 2392218
                           AA
                                  20010525
                                            CA 2000-2392218
                                                                        20001117
     EP 1233976
                           A1
                                  20020828
                                               EP 2000-980521
                                                                        20001117
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     US 2004072148
                           A1
                                  20040415
                                               US 2003-407897
                                                                        20030407
PRIORITY APPLN. INFO.:
                                               US 1999-165916P
                                                                    P 19991117
                                               WO 2000-US31738
                                                                    W 20001117
     The present invention is directed to a capture assay to simultaneously
     screen for HBV, HCV and HIV nucleic acids in samples such as
     plasma. The nucleic acids including both viral DNA and RNA are purified
     from the plasma samples in a single extraction procedure. In one embodiment, a
     mixture of degenerate biotin-labeled PCR primers specific for the HBV,
     HCV, HIV-1 type M and HIV-1 type O are used to amplify any of
     these viruses which may be present in plasma. Amplified products are
     captured by hybridization to immobilized capture sequence, and thereafter
     detected. An internal control vector containing a synthetic fragment flanked
     by sequences corresponding to the HBV primers was designed to monitor
     sample recovery during extraction, amplification and detection.
                                                                          All major
     subtypes of HBV, HCV and HIV-1 including HIV-1 type O have been
     confirmed and detected by the assay.
REFERENCE COUNT:
                                 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
                          6
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L61 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                          1999:620530 CAPLUS
DOCUMENT NUMBER:
                          131:240077
                          Carrier and solid support for
TITLE:
                          immunoassay
INVENTOR(S):
                          Kumasawa, Toshiaki; Tagami, Hiroaki; Kitani,
                          Yoshiyasu; Yokohama, Hiroaki; Mori, Shuji; Matsumori,
                          Shigeru
PATENT ASSIGNEE(S):
                          SRL K. K., Japan
                          Jpn. Kokai Tokkyo Koho, 8 pp.
SOURCE:
                          CODEN: JKXXAF
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                          KIND
                                  DATE
                                              APPLICATION NO.
                                                                       DATE
```

JP 11264823	A2	19990928	JP 1998-372946	19981228
PRIORITY APPLN. INFO.	:		JP 1997-368381	A 19971227
			ompound-coated glass	
ceramic are used	for reduc	ing nonspec	cific binding with se	rum proteins,
e.g. IgG, in imm	unoassay o	f antigen o	or antibody. The sil	icon compound is
dialkyl-polysilo:	xane (e.g.	dimethylpo	olysiloxane), or a hy	drophobic silane:
alkyltrialkoxysi.	lane, viny	ltrialkoxy	silane, or phenyltria	lkoxysilane (e.g.
octadecyltrietho:	xysilane).	A such po	orous carrier compris	ing glass fiber
coated with dime	thylpolysi	loxane was	prepared for immobil	ization of
hepatitis C core	antigen f	or immunod:	iagnosis of anti-HCV	pos.
sera.			_	

L61 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:449181 CAPLUS

DOCUMENT NUMBER: 131:127390

TITLE: Immunoassay using glass fiber as solid

INVENTOR(S): Kumasawa, Toshiaki; Tagami, Hiroaki; Kitani, Yoshiyasu

PATENT ASSIGNEE(S):

SRL K. K., Japan Jpn. Kokai Tokkyo Koho, 4 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 11194129 A2 19990721 JP 1997-368396 19971227
PRIORITY APPLN. INFO.: JP 1997-368396 19971227

AB Glass fiber is treated with water-soluble organic solvent and dried for use as solid support of immuno-reactive substance in immunoassay. The water-soluble organic solvent is selected from C1-4 fatty alcs. or fatty ketones, e.g. propanol or acetone. Thus, glass fiber membrane was treated with isopropanol, dried, and sensitized with hepatitis C virus core antigen for detecting anti-HCV core

antibody in serum. Similarly, acetone-treated glass fiber membrane was sensitized with Treponema pallidum antigen for detecting TP-pos. serum.

L61 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:449180 CAPLUS

DOCUMENT NUMBER: 131:129038

TITLE: Immobilization of antigen or antibody on carrier or

solid support for immunoassay

INVENTOR(S): Kumasawa, Toshiaki; Tagami, Hiroaki; Kitani, Yoshiyasu

PATENT ASSIGNEE(S): SRL K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
JP 11194128	A2	19990721	JP 1997-368018	19971227
PRIORITY APPLN. INFO.:			JP 1997-368018	19971227

AB **Solid support** or carrier is treated with water-soluble organic solvent for immobilization of antigen or antibody. The water-soluble organic solvent is propanol, and the **solid support** is multi-well microplate of polystyrene. Thus, polystyrene microplate was treated with 2-propanol for immobilization of hepatitis C virus core antigen for detecting serum antibody specific for **HCV** core antigen.

L61 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:251284 CAPLUS

DOCUMENT NUMBER: 128:292153

TITLE: Protease regulator screening assay using a recombinant

polypeptide comprising anchor, protease recognition,

and signal regions

INVENTOR(S): Chien, David Y.; Selby, Mark J.

PATENT ASSIGNEE(S): Chiron Corporation, USA SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT	NO.			KIN	D	DATE		2	APPL:	ICAT:	ION I	NO.		D	ATE	
					-	- -							-			
WO 9816	657			A1		1998	0423	1	WO 1	997-1	US18	632		1	9971	017
W:	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
	DK,	EE,	ES,	FI,	GB,	GE,	GH,	HU,	ID,	IL,	IS,	JP,	KE,	KG,	KP,	KR,
	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,
	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	UA,	ŪG,
	UZ,	VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM			
RW:	GH,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,
	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,

GN, ML, MR,	NE,	SN, TD, TG		
AU 9749043	A1	19980511 AU	1997-49043	19971017
US 6436666	В1	20020820 US	1997-997055	19971017
US 2003113825	A1	20030619 US	2002-225390	20020820
PRIORITY APPLN. INFO .:		US	1996-28817P P	19961017
		US	1997-997055 A	19971017
		WO	1997-US18632 W	19971017

A polypeptide containing an anchor region, a protease recognition site, and a AB detectable signal region can be produced recombinantly and directly attached to a solid support. The polypeptide is useful for screening protease regulators, especially protease inhibitors. Thus, a recombinant protein is produced in which the anchor region is protein A which specifically binds to an antibody, the protease recognition site is. that for hepatitis C virus NS3 protease such as that for NS4A/NS4B or HS4B/NS5A cleavage, and the signal region comprises the epitope FLAG sequence. A fragment encoding HCV NS5 peptide protease target site is inserted in frame into the polylinker region of pEZZ18 so that it is connected at the C-terminal region of protein A. The NS5 peptide protease target site includes the NS5A and NS5B cleavage site, i.e., amino acids 2420 and 2421, 7 amino acids at the N-terminal side of the cleavage site, and 8 amino acids at the C-terminal side of the cleavage site. Another sequence fragment encoding the FLAG tag is inserted in frame at the C-terminal end of the NS5 protease target site. The sequence fragment encodes three FLAG tags alternately spaced with two 4-glycine spacers. The assay is readily adapted to an automated format and is suitable for large scale drug screens, as demonstrated by screening for potentially therapeutically useful inhibitors of the HCV protease.

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 8 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L61 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

1997:743751 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

128:47287

TITLE:

C type hepatitis virus disease diagnostic agent

Takahama, Yoichi; Shiraishi, Junichi INVENTOR(S): Toa Medical Electronics Co., Ltd., Japan

PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 8 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
JP 09297141	A2	19971118	JP 1996-112442	19960507
TW 562927	В	20031121	TW 1997-86105490	19970426
US 6379886	B1	20020430	US 1997-850328	19970502
EP 806669	A2	19971112	EP 1997-107368	19970505
EP 806669	A3	19971126		
EP 806669	B1	20020410		
R: BE, DE, FR,	GB, IT			
CN 1170875	Α	19980121	CN 1997-109798	19970506
US 2002081630	A1	20020627	US 2001-28172	20011221
PRIORITY APPLN. INFO.:			JP 1996-112442	A 19960507
			US 1997-850328	A1 19970502

AB Hepatitis C virus antigen or carrier protein conjugate is coated on a solid support and used for detecting anti-hepatitis C virus antibody and for diagnosing HCV infection. The HCV antigen is core antigen, NS3 antigen, NS4 antigen, or NS5 antigen, and the carrier protein is bovine serum albumin, egg white albumin or hemocyanin.

L61 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1997:159031 CAPLUS

TITLE:

Chemical synthesis of branched

oligodeoxyribonucleotides. Design and synthesis of

branching monomer and characterization of oligomers for use as amplifiers in nucleic acid quantification

assays.

Horn, Thomas; Chang, Chu-An; Urdea, Mickey S. AUTHOR(S):

Chiron Diagnostics, Nucleic Acids Systems, Emeryville, CORPORATE SOURCE:

CA, 94608, USA

Book of Abstracts, 213th ACS National Meeting, San SOURCE:

Francisco, April 13-17 (1997), CARB-097. American

Chemical Society: Washington, D. C.

CODEN: 64AOAA

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

We describe the selection of an optimal chemical for the synthesis of branching monomers to be used in the synthesis of bDNA comb structures. This new type of branched DNA contains one unique oligonucleotide, the primary sequence, covalently attached to many identical copies of a different oligonucleotide, the secondary sequence. The bDNA comb structures were assembled on a solid support, and

several synthesis parameters were investigated to optimize the quality and yield of product. The bDNA comb mols. were characterized by PAGE and HPCE methods, and by controlled cleavage at periodate-cleavable moieties incorporated during synthesis. The bDNA comb oligomers have been elaborated by enzymic or chemical ligation into large bDNA mols. with 45 repeated DNA oligomer sequences, each capable of hybridizing specifically to an alkaline phosphatase labeled oligonucleotide. They were used as signal amplifiers in nucleic acid quantitation assays for the detection of HIV

and HCV.

L61 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:625871 CAPLUS

DOCUMENT NUMBER:

121:225871

TITLE: Immunoassay with solid support

-immobilized and magnetic particle-immobilized same

antigen

Kaneko, Yasunobu INVENTOR(S):

Olympus Optical Co, Japan PATENT ASSIGNEE(S): SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06186231	A2	19940708	JP 1992-341808	19921222
PRIORITY APPLN. INFO.:			JP 1992-341808	19921222

AΒ The title method uses an immobilized antigen on the inner wall of a reaction chamber and an immobilized same antigen on a magnetic carrier particle (e.g. gelatin). Thus, for determination of anti-hepatitis C virus (HCV) antibody, HCV core antigen was immobilized on the well bottom of a plate and sep. on gelatin particle. Use of the magnetic particle-immobilized HCV core antigen exhibited higher sensitivity than with a magnetic particle-immobilized anti-human IgG antibody.

L61 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:433163 CAPLUS

DOCUMENT NUMBER: 121:33163

TITLE: Monoclonal antibodies to putative HCV E2/NS1

proteins and methods for using same

Mehta, Smriti U.; Johnson, Jill E.; Dailey, Stephen INVENTOR(S):

H.; Desai, Suresh M.; Devare, Sushil G.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: U.S., 21 pp. Cont.-in-part of U.S. Ser. No. 610, 180,

> abandoned. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PAT	TENT NO.			KINI	DA	TE	AP	PLICATION NO.		DATE
US	5308750			Α	19	940503	US	1991-748292		19910821
CA	2032907			AA	19	910623	CA	1990-2032907 1990-68390		19901221
CA	2032907			С	20	020514				
AU	9068390			A1	19	910627	· AU	1990-68390		19901221
AU	638304			B2	19	930624				
AT	128237			E	. 19	951015	AT	1990-125354 1990-125354		19901222
ES	2080099			TЗ	19	960201	ES	1990-125354		19901222
JP	04253998			A2	19	920909	JP	1990-418240		19901225
JΡ	3188717			B2	20	010716				
WO	9304205			A1	19	930304	WO	1992-US7189		19920821
	W: AU,									
	RW: AT,	BE,	CH,	DE,	DK, E	S, FR,	GB, G	R, IE, IT, LU,	MC, N	L, SE
AU	9225850			A1	19	930316	AU	1992-25850		19920821
EP	603307			A1	19	940629	EP	1992-25850 1992-920089		19920821
EP	603307			B1	19	991013				
	R: AT,	BE,	CH,	DE,	DK, E	S, FR,	GB, G	R, IT, LI, NL,	SE	
JP	06510192			Т2	19	941117	JP	1992-504659 1992-920089 1992-920089 1993-504659 1997-905054 1989-456162		19920821
AT	185606			E	19	991015	AT	1992-920089	•	19920821
ES	2139607			Т3	20	000216	ES	1992-920089		19920821
JP	3335351			B2	20	021015	JP	1993-504659		19920821
US	6596476			B1	20	030722	US	1997-905054		19970801
PRIORITY	Y APPLN.	INFO	.:				US	1989-456162	В2	19891222
							US	1990-610180	В2	19901107
							US	1991-748292	Α	19910821
							US	1991-760292	В1	19910916
							WO	1992-US7189	Α	19920821
							US	1987-903034 1989-456162 1990-610180 1991-748292 1991-760292 1992-US7189 1994-183207 1995-373920 1995-507740	В1	19940118
							US	1995-373920	В1	19950117
							US	1995-507740	В1	19950726
							0.0	1330 707000		13300301
אם הו	e hasains	ro m	anac	I on a l	anti	hadies	which	enecifically	hind to	n Henatitis

AB Disclosed are monoclonal antibodies which specifically bind to Hepatitis C Virus (HCV) E2/NS1 antigen. Also provided are hybridoma cell lines which secrete these monoclonal antibodies, methods for using these monoclonal antibodies, and assay kits for assays which contain these monoclonal antibodies.

L61 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1994:161617 CAPLUS

DOCUMENT NUMBER:

120:161617

TITLE:

Process for the determination of peptides

corresponding to immunologically important epitopes and their use in a process for determination of antibodies, or biotinylated peptides corresponding to immunologically important epitopes, a process for preparing them and compositions containing them

De Leys, Robert

PATENT ASSIGNEE(S):

N.V. Innogenetics S.A., Belg.

SOURCE:

PCT Int. Appl., 133 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

INVENTOR(S):

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9318054	A2	19930916	WO 1993-EP517	19930308
WO 9318054	A3	19940217		

W: AU, BB, BG, BR, CA, CZ, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SK, UA, US

```
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
             BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG
                                19931013
                                           EP 1992-400598
    EP 564746
                         A1
                                                                    19920306
        R: BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
                                            CA 1993-2102301
    CA 2102301
                                19930907
                          AΑ
                                                                    19930308
                                            AU 1993-37463
    AU 9337463
                          A1
                                19931005
                                                                    19930308
    AU 671623
                          B2
                                19960905
    EP 589004
                                            EP 1993-906490
                          A1
                                19940330
                                                                    19930308
    EP 589004
                          B1
                                19990506
    EP 589004
                          B2
                                20040506
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
    JP 06505806
                          T2
                                            JP 1993-515334
                                19940630
                                                                    19930308
    JP 3443809
                          B2
                                20030908
    BR 9305435
                          Α
                                19941227
                                            BR 1993-5435
                                                                    19930308
    EP 891982
                          A2
                                19990120
                                            EP 1998-202777
                                                                    19930308
    EP 891982
                          A3
                                20000412
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE
                                                                    19930308
    AT 179716
                          Ε
                                19990515
                                            AT 1993-906490
                          Т3
                                19990916
                                            ES 1993-906490
    ES 2133392
                                                                    19930308
    US 5891640
                         Α
                                            US 1993-146028
                                19990406
                                                                    19931122
    US 6165730
                          Α
                                            US 1996-723425
                                20001226
                                                                    19960930
    US 6210903
                          В1
                                20010403
                                            US 1998-112206
                                                                    19980709
    US 6667387
                          B1
                                20031223
                                            US 2000-576824
                                                                    20000523
    US 6709828
                          В1
                                20040323
                                            US 2000-680497
                                                                    20001006
    US 6649735
                          B1
                                20031118
                                            US 2001-790497
                                                                    20010223
    JP 2.004002379
                          A2
                                20040108
                                            JP 2003-107716
                                                                    20030411
    US 2005049398
                         A1
                                20050303
                                            US 2003-621675
                                                                    20030718
PRIORITY APPLN. INFO.:
                                            EP 1992-400598
                                                                A 19920306
                                            EP 1993-906490
                                                                A3 19930308
                                            JP 1993-515334
                                                                A3 19930308
                                            WO 1993-EP517
                                                                A 19930308
                                                                A3 19931122
                                            US 1993-146028
                                            US 1996-723425
                                                                A3 19960930
                                            US 1998-112206
                                                                A3 19980709
                                            US 2000-576824
                                                                 A3 20000523
     Peptides corresponding to immunol. important epitopes (of bacterial or
    viral proteins) are determined by (1) preparing peptides corresponding to
     fragments of the protein of interest, (2) biotinylating the peptides, (3)
    binding the biotinylated peptides to a solid phase via interation with
```

AB Peptides corresponding to immunol. important epitopes (of bacterial or viral proteins) are determined by (1) preparing peptides corresponding to fragments of the protein of interest, (2) biotinylating the peptides, (3) binding the biotinylated peptides to a solid phase via interation with avidin or streptavidin, and (4) measuring antibodies which bind to the individual peptides. Processes for biotinylation of the peptides and for determination of antibodies to hepatitis C virus (HCV), to HIV, and to HTLV-I and -II are also disclosed. HCV, HIV, HTLV-I, and HTLV-II peptide sequences are included. Use of the biotinylated peptides in the process of the invention makes the anchorage of the peptides to a solid support such that it leaves their essential amino acids free to be recognized by antibodies. In studies determining binding of unbiotinylated peptides directly onto the wells of a polystyrene microtiter plate and binding of biotinylated peptides to wells coated with streptavidin, results demonstrated that antibody binding to the biotinylated peptide is superior to antibody binding to peptide coated directly onto the plastic.

```
L61 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
```

ACCESSION NUMBER: 1993:142986 CAPLUS

DOCUMENT NUMBER: 118:142986

TITLE: Methods and compositions for simultaneous analysis of

multiple analytes, especially with flow cytometry

INVENTOR(S): Lehnen, Brian C.; Crothers, Stephan D.

PATENT ASSIGNEE(S): Transmed Biotech Inc., USA

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PA	TENT N	ο.			KINI)	DATE		API	PLICAT	ION NO).		DATE .
WO	93023	60			A1		1993	0204	WO	1992-	us5799)	-	19920710
	W:	AU,	CA,	JP,	NO,	US								
	RW:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, GF	R, IT,	LU, M	IC, NL	, SI	Ε
CA	21133	50			AA		1993	0204	CA	1992-	211335	0		19920710
CA	21133	50			С		1999	0323						
AU	92234	80			A1		1993	0223	AU	1992-	23480			19920710
EP	59476	3			A1		1994	0504	EP	1992-	916006	5		19920710
EP	59476	3			В1		1998	0923						
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, GF	R, IT,	LI, I	U, MC	, N	L, SE
JP	06509	417		•	T2		1994	1020	JP	1993-	502870)		19920710
AT	17154	3			E		1998	1015	AT	1992-	916006	5		19920710
US	55676	27			Α		1996	1022	US	1993-	149129)		19931105
PRIORIT	Y APPL	N.]	INFO.	:					US	1991-	731039)	A2	19910716
									WO	1992-	US5799)	Α	19920710
		_		_							_			_

A method is disclosed for detection of multiple analytes in a sample AB employing a complementary binding moiety to each of the analytes bound to a solid support, wherein each analyte and its complementary binding moiety comprise 1st and 2nd members of a specific binding pair. The method includes (1) forming a mixture of known proportions of multiple subpopulations of the complementary binding moieties, in which each subpopulation comprises a different complementary binding moiety; (2) contacting the sample with the mixture so that specific binding pairs are formed on the solid supports; and (3) relating the presence of analytes in the sample to the formation of specific binding pairs associated with each unique proportion of multiple subpopulations by comparing the area of the peak in the fluorescence histogram to the total area of peaks in the histogram. The method can be performed with solid supports of a single average size and a single fluorochrome and without the need for using other detection systems. Reagents of microspheres coated with either human immunodeficiency virus (HIV) gp41 or with goat anti-human IgG were prepared Reagents containing exclusively either or both of these coated microspheres were blended proportionately so that gp41-coated microspheres comprised 100, 89, 79, 68, 58, 48,38,28,19,9, and 0% of the total number of microspheres in the reagent and anti-IgG antibody-coated microspheres comprised 0, 11, 21, 32, 42, 52, 62, 72, 81, 91, and 100%, resp. Each of the 11 proportional reagents was incubated with human serum known to be pos. for both IgG and anti-gp41 antibodies; after washing, a 2nd reagent, containing FITC-labeled anti-human IgG antibodies, was added and the the mixture incubated, washed, and analyzed with a flow cytometer. The data were analyzed and output as a histogram; 1 or 2 histogram peaks was observed, depending on whether the reagent contained 1 or 2 types of microspheres, resp. Magnitudes of peak areas varied in a manner predicted by the proportionality of microspheres in the reagents. In other expts. it was shown that histogram area is independent of fluorescence intensity, that the summed area of overlapping peaks is determined by the proportionality of the reagent microspheres whose fluorescence contributes to the combined peak in the histogram, and that the area of a histogram peak arising from nonspecific binding (i.e., a neg.) is determined by the proportionality of the resp. microspheres in the reagent. A four-analyte serum assay using microspheres coated with IgG antibodies, HIV gp41, HIV p24, and hepatitis B core protein is also described, as are methods of data anal. for the method of the invention.

```
L61 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2005 ACS on STN
```

ACCESSION NUMBER:

1992:21470 CAPLUS

DOCUMENT NUMBER:

116:21470

TITLE:

Synthetic peptide and reagent for analysis of **HCV** (hepatitis C virus) antibodies using the

same

INVENTOR(S):

Hayashi, Nakanobu; Hashimoto, Masakatsu

PATENT ASSIGNEE(S): SOURCE:

Shima Kenkyusho Y. K., Japan Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 03190898 A2 19910820 JP 1989-329746 19891221

PRIORITY APPLN. INFO.: JP 1989-329746 19891221

A peptide having the common antigen determinant with HCV virus, i.e. H-Ile-Ile-Pro-Asp-Arg-Glu-Val-Leu-Tyr-Arg-Glu-Phe-Asp-Glu-Met-Glu-Glu-Cys-Ser-Gln-His-Leu-Pro-Tyr-Ile-Glu-Gln-Gly-Met-Met-Leu-Ala-Glu-Gln-Phe-Lys-Gln-Lys-Ala-Leu-Gly-Leu-OH (I), is prepared by the solid phase method on Fmoc- or BOC-Leu-bound resin (Fmoc = 9H-fluoren-9-ylmethoxycarbonyl, BOC = Me3CO2C) using Fmoc-protected amino acids. A reagent for analyzing HCV antibodies by the latex agglutination turbidimetry or light scattering photometry comprises (A), a solid reagent (i.e. I immobilized through phys. absorption or chemical through spacers on a solid support such as a microtiter reaction plate, beads, a sheet, a porous membrane, or magnetic latex, more preferably (high-d.) latex particles, immobilized erythrocyte, gelatin particles, or immobilized bacteria) and (B) human globulin antibodies (e.g. human IgG or anti-human IgM) labeled with a radioisotope, enzyme, biotin, fluorescent dye, or Eu chelate or (C) a similarly labeled I. I of high purity can be prepared in large quantity at lower cost than the conventional HCV-derived antigen and is easily immobilized on the support and the immobilized I shows good reaction with the HCV antibodies of HCV patients with high sensitivity and specificity.

=> NS3 and NS4 and L59

2088 NS3

576 NS4

L67 2 NS3 AND NS4 AND L59

=> D L67 IBIB ABS 1-2

L67 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:905910 CAPLUS

DOCUMENT NUMBER: 141:378844

TITLE: Inducing a T cell response with recombinant

antigen-expressing pestivirus replicons or recombinant pestivirus replicon-transfected dendritic cells, and

therapeutic uses

INVENTOR(S): Rehermann, Barbara; Racanelli, Vito; Behrens,

Sven-Erik; Tautz, Norbert

PATENT ASSIGNEE(S): The Government of the United States of America as

Represented by the Secretary of Health and Human Services, USA; Justus-Liebig-Universitaet Giessen

SOURCE: PCT Int. Appl., 143 pp.

CODEN: PIXXD2

CODEN: FIAAD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PAT	ENT 1	.00			KİN	D :	DATE		j	APPL	ICAT:	ION 1	NO.		D	ATE	
	2004				A2 A3		2004 2005		1	WO 2	004-1	US11	018		2	00404	410
	W:			AL,					BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	ΝZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,
		BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2003-462165P P 20030411 US 2003-463097P P 20030414

The present disclosure relates to compds. and methods of generating T cell-mediated immunity, particularly T cell-mediated immunity to Hepatitis C Virus (HCV), Respiratory Syncytial Virus (RSV), Human Immunodeficiency Virus (HIV), Mycobacterium tuberculosis, Plasmodium falciparum, and tumors. The method includes (a) administering to the subject an amount of an antigen presenting cell (such as dendritic cell) sufficient to induce the response in the subject, wherein the antigen presenting cell expresses the recombinant antigen from a pestivirus replicon or (b) directly administering the recombinant antigen expressing replicon in form of RNA or DNA.

L67 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:293595 CAPLUS

DOCUMENT NUMBER: 120:293595

TITLE: Thio group-containing antigen or peptide treated with

reducing agent for antibody determination

INVENTOR(S): Takei, Toshinori; Inoe, Juzo; Asahina, Aki; Tokita,

Susumu

PATENT ASSIGNEE(S): Dainabot Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06074956	A2	19940318	JP 1992-270684	19920828
JP 3225468	B2	20011105		
DETENT ADDITION OF			TD 1000 070604	10000000

PRIORITY APPLN. INFO.:

JP 1992-270684 19920828

As a reducing agent is used for preventing oxidation of (immobilized) thio group-containing antigen or peptide. The (immobilized) thio group-containing antigen or peptide is used as a test reagent for antibody determination. In a sep. experiment, erythrocyte-immobilized hepatitis C virus (HCV) antigen was treated with DTT, 2-mercaptoethanol, or glutathione and used for determining antibody to HCV core antigen, NS3, or NS4 protein, resp.

=> NS# and NS4 and L56

80831 NS#

576 NS4

L68 7 NS# AND NS4 AND L56

=> D L68 IBIB ABS 1-7

AUTHOR(S):

L68 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:509788 CAPLUS

DOCUMENT NUMBER: 139:67449

TITLE: Comparative study of peptide antigens and polymer

surface interactions. The influence on sensitivity and

specificity in serodiagnosis of HCV and HIV Burov, Sergey; Leko, Maria; Glinskaya, Oxana;

Shkarubskaya, Zoya; Kharina, Maria; Dorosh, Marina;

Lisok, Tamara; Mobarhan, Asadi

CORPORATE SOURCE: Institute of Macromolecular Compounds, Academy of

Sciences, St.-Petersburg, Russia

SOURCE: Peptides 2000, Proceedings of the European Peptide

Symposium, 26th, Montpellier, France, Sept. 10-15, 2000 (2001), Meeting Date 2000, 865-866. Editor(s): Martinez, Jean; Fehrentz, Jean-Alain. Editions EDK:

Paris, Fr.

CODEN: 69EDWK; ISBN: 2-84254-048-4

DOCUMENT TYPE:

LANGUAGE:

Conference English

The determination of specific antibodies against distinct antigenic proteins of a given pathogen is the most commonly used diagnostic tool for the detection of viral infections. Although a large number of the established test systems still use natural antiqens from different sources, synthetic peptides, representing the specific antigenic determinants possess the significant advantages. However, the interaction of peptides with the polymer surface may have appreciable influence on the efficiency of their application in ELISA test systems. Apart from induced conformational changes there are significant difference in attachment of polypeptides to the solid phase and possible competition for the correspondent binding sites. Thus, quant. control of the antigenic determinants adsorption process may represent a useful tool for the enhancement of ELISA diagnostic system

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 1 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L68 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

sensitivity.

2003:509457 CAPLUS

DOCUMENT NUMBER:

140:218010

TITLE:

Synthesis of HCV and HIV B-cell epitopes

using polystyrene supports with new

cross-linking agent

AUTHOR(S):

Burov, Sergey; Menshikova, Anastasia; Evseeva,

Tatiana; Shabsels, Boris; Leko, Maria; Pavlotzkaya,

CORPORATE SOURCE:

Institute of Macromolecular Compounds, Academy of

Sciences, St. Petersburg, Russia

SOURCE:

Peptides 2000, Proceedings of the European Peptide Symposium, 26th, Montpellier, France, Sept. 10-15, 2000 (2001), Meeting Date 2000, 201-202. Editor(s): Martinez, Jean; Fehrentz, Jean-Alain. Editions EDK:

Paris, Fr.

CODEN: 69EDWK; ISBN: 2-84254-048-4

DOCUMENT TYPE:

Conference

LANGUAGE:

English

A symposium report. Suspension copolymn. of styrene with bis-vinylphenyl ether (BVPE) was used to obtain polymer beads with an average size of 150-300 mesh which were used in solid-phase peptide synthesis of HCV NS4 antigenic determinant in reasonable yield without double coupling synthetic protocol. Results showed that the resins based on polystyrene crosslinked by BVPE may produce at least equal results in the synthesis of peptides with difficult sequences as standard polystyrene-divinylbenzene resins.

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS 1 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L68 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

2000:569089 CAPLUS

DOCUMENT NUMBER:

133:282074

TITLE:

Syntheses of four peptides from the immunodominant region of hepatitis C viral pathogens using PS-TTEGDA

support for the investigation of HCV

infection in human blood

AUTHOR(S):

SOURCE:

Kumar, K. S.; Pillai, V. N. Rajasekharan; Das, M. R.

Rajiv Gandhi Centre for Biotechnology,

Thiruvananthapuram, 695 014, India

Journal of Peptide Research (2000), 56(2), 88-96

CODEN: JPERFA; ISSN: 1397-002X

PUBLISHER:

LANGUAGE:

Munksquard International Publishers Ltd.

DOCUMENT TYPE:

Journal

English

OTHER SOURCE(S):

CASREACT 133:282074

Four peptides were designed and synthesized on a highly solvating

copolymer of tetraethyleneglycol diacrylate cross-linked polystyrene (PS-TTEGDA) support with very high purity and yield. The polymer was synthesized in various crosslinking densities (1, 2, 3, 4, 5 and 10%) using radical aqueous suspension polymerization Four per cent PS-TTEGDA resin showed rigidity and mech. characteristics comparable with those of divinylbenzene cross-linked polystyrene (PS-DVB) support. Swelling and solvation characteristics of PS-TTEGDA were much higher than PS-DVB support in all solvents used in solid-phase peptide synthesis. Forty-eight hour treatment of the support with neat trifluoroacetic acid did not show any change in its IR spectra. PS-TTEGDA could be functionalized with chloromethyl, aminomethyl and hydroxymethyl functional groups under various controlled conditions. Synthetic utility of the support was demonstrated by the synthesis of four peptides selected from the envelope and nonstructural protein region of the prototype hepatitis C virus (HCV). These peptides were later used successfully to develop a peptide-based immunoassay (PBEIA) for the detection of HCV immunity. Peptides designed from the NS1 and NS4 protein regions were found to be very promising for the development of a new diagnostic kit to detect HCV infection in human blood. Peptide purity was tested by RP-FPLC and the peptide identity was confirmed by amino acid anal.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L68 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:743751 CAPLUS

DOCUMENT NUMBER:

128:47287

TITLE: C type hepatitis virus disease diagnostic agent

INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:

Takahama, Yoichi; Shiraishi, Junichi Toa Medical Electronics Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09297141	A2	19971118	JP 1996-112442	19960507
TW 562927	В	20031121	TW 1997-86105490	19970426
US 6379886	B1	20020430	US 1997-850328	19970502
EP 806669	A2	19971112	EP 1997-107368	19970505
EP 806669	A3	19971126		
EP 806669	B1	20020410		
R: BE, DE, FR,	GB, IT			
CN 1170875	Α	19980121	CN 1997-109798	19970506
US 2002081630	A1	20020627	US 2001-28172	20011221
PRIORITY APPLN. INFO.:			JP 1996-112442	A 19960507
			US 1997-850328	A1 19970502

AB Hepatitis C virus antigen or carrier protein conjugate is coated on a solid support and used for detecting anti-hepatitis C virus antibody and for diagnosing HCV infection. The HCV antigen is core antigen, NS3 antigen, NS4 antigen, or NS5 antigen, and the carrier protein is bovine serum albumin, egg white albumin or hemocyanin.

L68 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:208363 CAPLUS

DOCUMENT NUMBER: 126:290298

TITLE: Evaluation of "COBAS CORE anti-HCV-EIA" for

the detection of antibodies to HCV by COBAS

CORE

AUTHOR(S): Murata, Shogo; Morishita, Noriko; Ueno, Tadashi; Seki,

Tomoyuki; Fukui, Atsuyo

CORPORATE SOURCE: Center Adult Diseases, Wakayama Doctors Assocn. Hosp.,

Japan

SOURCE: Igaku to Yakugaku (1997), 37(1), 111-116

CODEN: IGYAEI; ISSN: 0389-3898

PUBLISHER: Shizen Kagakusha

DOCUMENT TYPE: Journal LANGUAGE: Japanese

COBAS CORE anti-HCV-EIA is a third generation immunoassay system comprises an automated apparatus with 5 different polystyrene bead-immobilized recombinant hepatitis C virus antigens, such as core antigen c680 region, KN3 and KN4-1 regions of NS-3 and NS-4 of type 1a strain, and NS3b and NS5a regions of NS3 and NS5 of of genome type 1b strain, and enzyme-labeled mouse anti-human IgG monoclonal antibody. The method and system is very useful for determination of hepatitis C virus antibody in blood serum of patients.

L68 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:161617 CAPLUS

DOCUMENT NUMBER: 120:161617

TITLE: Process for the determination of peptides

corresponding to immunologically important epitopes and their use in a process for determination of antibodies, or biotinylated peptides corresponding to immunologically important epitopes, a process for

preparing them and compositions containing them

INVENTOR(S): De Leys, Robert

PATENT ASSIGNEE(S): N.V. Innogenetics S.A., Belg.

SOURCE: PCT Int. Appl., 133 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PAT	TENT NO.			KINI	D DATE	APPLICATION NO.	DATE
WO	9318054			A2		WO 1993-EP517	
	W: AU,	BB,	BG,	BR,		HU, JP, KP, KR, LK,	MG, MN, MW, NO,
						GB, GR, IE, IT, LU, GN, ML, MR, SN, TD,	
EP	564746			A1	19931013	EP 1992-400598	19920306
CA	2102301	CH,	DE,	AA	19930907	GB, GR, IE, IT, LI, CA 1993-2102301	19930308
AU	671623			B2	19931005	AU 1993-37463	19930308
EP EP	589004 589004			A1 B1	19940330 19990506	CA 1993-2102301 AU 1993-37463 EP 1993-906490	19930308
EP	589004			82	20040506	GB, GR, IE, IT, LI,	
JP .TP	06505806		•	T2	19940630	JP 1993-515334	19930308
BR	9305435			A	19941227	BR 1993-5435	19930308
EP EP	891982 891982			A2 A3	19990120 20000412	BR 1993-5435 EP 1998-202777	19930308
						GB, GR, IT, LI, LU, AT 1993-906490	
ES	2133392 5891640			T3	19990916	AT 1993-906490 ES 1993-906490 US 1993-146028	19930308 19931122
US	6165730			Α	20001226	US 1996-723425	19960930
IIC	6667387			R1	20031223	US 1998-112206 US 2000-576824	20000523
US US	6709828 6649735			B1 B1	20040323 20031118	US 2000-680497 US 2001-790497	20001006 20010223
JP US	20040023 20050493	79 98		A2 A1	20040108 20050303	US 2000-680497 US 2001-790497 JP 2003-107716 US 2003-621675	20030411 20030718
ORITY	APPLN.	INFO.	· :	_		EP 1992-400598 EP 1993-906490	A 19920306

JP	1993-515334	A3	19930308
WO	1993-EP517	Α	19930308
US	1993-146028	A3	19931122
US	1996-723425	A3	19960930
US	1998-112206	A3	19980709
US	2000-576824	A3	20000523

Peptides corresponding to immunol. important epitopes (of bacterial or AB viral proteins) are determined by (1) preparing peptides corresponding to fragments of the protein of interest, (2) biotinylating the peptides, (3) binding the biotinylated peptides to a solid phase via interation with avidin or streptavidin, and (4) measuring antibodies which bind to the individual peptides. Processes for biotinylation of the peptides and for determination of antibodies to hepatitis C virus (HCV), to HIV, and to HTLV-I and -II are also disclosed. HCV, HIV, HTLV-I, and HTLV-II peptide sequences are included. Use of the biotinylated peptides in the process of the invention makes the anchorage of the peptides to a solid support such that it leaves their essential amino acids free to be recognized by antibodies. In studies determining binding of unbiotinylated peptides directly onto the wells of a polystyrene microtiter. plate and binding of biotinylated peptides to wells coated with streptavidin, results demonstrated that antibody binding to the biotinylated peptide is superior to antibody binding to peptide coated directly onto the plastic.

L68 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:251060 CAPLUS

DOCUMENT NUMBER: 118:251060

TITLE: Hepatitis C assay utilizing recombinant antigens to

NS1

INVENTOR(S): Dailey, Stephen H.; Desai, Suresh M.; Devare, Sushil

G.

Patent

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: PCT Int. Appl., 176 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	A1	19930304	WO 1992-US7188	19920821
RW: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IE, IT, LU, M	C, NL, SE
AU 9225135	A1	19930316	AU 1992-25135	19920821
EP 600009	A1	19940608	EP 1992-918853	19920821
R: AT, BE, CH,	DE, ES			
JP 06510191	T2	19941117	JP 1992-504658	19920821
US 6172189	B1	20010109	US 1997-867611	19970602
US 6593083	В1	20030715	US 2000-690359	20001017
PRIORITY APPLN. INFO.:			US 1991-748561	A 19910821
			US 1990-572822	YY 19900824
			US 1990-614069	B2 19901107
			US 1991-748565	A2 19910821
			US 1991-748566	B2 19910821
			WO 1992-US7188	A 19920821
			US 1992-989843	B1 19921119
			US 1994-179896	B1 19940110
			US 1996-646757	B1 19960501
			US 1997-867611	A3 19970602
ND III dans a second describ				

AB Unique recombinant antigens are provided which represent 5 distinct antigenic regions of the NS1 region of the hepatitis C virus (HCV) genome and can be used as reagents for the detection of antibodies and antigen in body fluids from individuals exposed to HCV. Synthetic DNA sequences which encode the proteins are optimized for expression in Escherichia coli by specific codon selection, and the proteins are expressed as chimeric fusion proteins with E. coli

CTP:CMP-3-deoxy-manno-octulosonate cytidylyltransferase (I). An assay is provided for detecting the presence of an antibody to an HCV antigen in a sample by contacting the sample with the recombinant antigens; preferred assay formats include a screening assay, a confirmatory assay, a competition or neutralization assay, and an immunodot assay. Thus, polystyrene beads were coated with 2 recombinant antigens: (1) a protein comprising 239 amino acids of I, amino acids 1192-1457 of the HCV NS3 region, amino acids 1676-1931 of the HCV NS4 region, and 10 amino acids contributed by 3 linker DNA sequences; (2) a protein comprising 239 amino acids of I, the 1st 150 amino acids encoded by the HCV genome, and 7 amino acids contributed by 1 linker DNA sequence. In a screening assay for antibodies in human plasma, these beads were incubated with sample, washed, incubated with goat anti-human IgG-peroxidase conjugate, washed, and incubated with o-phenylenediamine (chromogen) and H2O2.

=> NS3 and NS4 and NS5 and core and L48 2088 NS3 576 NS4 846 NS5 283322 CORE 61623 CORES 313638 CORE (CORE OR CORES) L69 97 NS3 AND NS4 AND NS5 AND CORE AND L48 => solid and L69 966755 SOLID 274057 SOLIDS 1169197 SOLID (SOLID OR SOLIDS) L70 5 SOLID AND L69 => D L70 IBIB ABS 1-5

L70 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:633152 CAPLUS

DOCUMENT NUMBER: 141:156083

TITLE: Simultaneous detection of HCV antigen and

anti-HCV antibodies in combination assay or

sole antibody assay

INVENTOR(S): Shah, Dinesh O.; Cheng, Yu; Stewart, James L.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PAT	CENT I	NO.			KIN	D :	DATE		i	APPL:	[CAT	ION I	NO.		D	ATE	
	2004	1520	70		A1		2004										
WO	WO 2004070387				A1		2004	0019	1	WO Z	004-		20040203				
	W:	ΑE,	ΑE,	AG,	AL,	AL,	AM,	AM,	AM,	AT,	ΑT,	AU,	ΑZ,	ΑZ,	BA,	BB,	BG,
		BG,	BR,	BR,	BW,	BY,	BY,	BZ,	BZ,	CA,	CH,	CN,	CN,	co,	co,	CR,	CR,
		CU,	CU,	CZ,	CZ,	DE,	DE,	DK,	DK,	DM,	DZ,	EC,	EC,	EE,	EE,	EG,	ES,
		ES,	FI,	FI,	GB,	GD,	GE,	GE,	GH,	GM,	HR,	HR,	HU,	HU,	ID,	IL,	IN,
		IS,	JP,	JP,	KE,	KE,	KG,	KG,	KP,	KP,	KP,	KR,	KR,	KZ,	KZ,	KZ,	LC,
		•	•				LU,										
		MZ,	MZ,	NA,	NI												
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,
		BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,
		MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,
		GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,
		GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG								

PRIORITY APPLN. INFO.: US 2003-357816 A 20030204

The subject invention relates to methods for the simultaneous detection of Hepatitis C Virus (HCV) antigens as well as antibodies produced in response to HCV antigens. Such methods may be carried out in the presence of a diluent comprising a reductant or lacking a reductant. Furthermore, the performance of such methods may be maximized by altering such variables as the nature of the antigen coated on the solid phase, temperature application and time. The HCV antigens are core antigen, NS3, NS4, NS5 and fragments. The method comprises formation of antigen-antibody complexes, addition of chemiluminescent compound-labeled antibody to bind the antigen-antibody complexes, and measuring the chemiluminescent signal.

L70 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:633162 CAPLUS

DOCUMENT NUMBER:

139:178676

TITLE:

Methods for the simultaneous detection of hcv

antigens and hcv antibodies

INVENTOR(S):

Shah, Dinesh O.; Dawson, George J.; Muerhoff, A.

Scott; Jiang, Lily; Gutierrez, Robin A.; Leary, Thomas

P.; Desai, Suresh; Stewart, James L.

PATENT ASSIGNEE(S):

Abbott Laboratories, USA

SOURCE:

U.S. Pat. Appl. Publ., 63 pp., Cont.-in-part of U.S.

ADDITONMENT NO

Ser. No. 891,983.

DAME

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

ZEND

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

DAMENIM NO

PA'	rent	NO.			KINI)	DATE		API	PLICA	TION	NO.		D.	ATE	
	2003 6727		48		A1 B2	-	2003		US	2002	-1734	80		2	0020	617
US	2003	1088	58		A 1		2003	0612	US	2001	-8919	83		2	0010	626
CA	2450	710			AA		2003	0109	CA	2002	-2450	710		2	0020	624
WO	2003	0027	49		A2		2003	0109	WO	2002	-US19	958		2	0020	624
WO	2003	0027	49		A3		2003	0710								
	W:	CA,	JP													
	RW:	•	BE, SE,	•	CY,	DE,	DK,	ES,	FI, F	R, GB	, GR,	IE,	IT,	LU,	MC,	NL,
EP	1412	538	•		A2		2004	0428	EP	2002	-7466	47		2	0020	624
	R:		BE, FI,	•		DK,	ES,	FR,	GB, GI	R, IT	, LI,	LU,	NL,	SE,	MC,	PT,
JР	2005	5181	86		Т2		2005	0623	JP	2003	-5091	10		2	0020	624
US	2004	1854	36		A1		2004	0923	US	2004	-7539	10		2	0040	107
US	6855	809			B2		2005	0215								
PRIORIT	Y APP	LN.	INFO	. :					US	2001	-8919	83	I	12 2	0010	626
									US	2002	-1734	80	I	A 2	0020	617
									WO	2002	-US19	958	V	V 2	0020	624

AB The subject invention relates to methods for the simultaneous detection of Hepatitis C Virus (HCV) antigens as well as antibodies produced in response to HCV antigens. Furthermore, the subject invention allows one to detect antigens in the early, acute stage of infection, even prior to the development of antibodies, thereby allowing for early detection of infected blood and blood products, thus improving the safety of the blood supply. The method allows the detection of the antigen or the antibody, or both, in a single assay. Antigens are detected with immobilized antibodies and antibodies are detected with immobilized antigens. After incubating the immobilized agents with a test sample, they are then incubated with labeled antibodies. Bound antigen is detected with an antibody to the antigen. Bound antibody is detected with a mouse monoclonal antibody to a human antibody, typically IgG.

L70 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:23040 CAPLUS

DOCUMENT NUMBER:

138:88633

TITLE: Methods for the simultaneous detection of HCV

antigens and HCV antibodies

Shah, Dinesh O.; Dawson, George A.; Muerhoff, A. INVENTOR(S):

Scott; Jiang, Lily; Gutierrez, Robin A.; Leary, Thomas

P.; Desai, Suresh; Stewart, James L.

Abbott Laboratories, USA PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATEN	T NO.			KINI	D DATE	;	API	PLICAT	ION N	ο.		DATE	
	030027			A2		0109	WO	2002-	US199	58		2002062	24
	030027 : CA,			A3	2003	0710							
P	-	BE, SE,		CY,	DE, DK,	ES,	FI, F	R, GB,	GR,	IE,	IT, L	J, MC, N	۱L,
US 20	031088	•		A1	2003	0612	US	2001-	89198	3		2001062	26
US 20	031529	48		A1	2003	0814	US	2002-	17348	0		2002061	17
US 67	27092			B2	2004	0427							
CA 24	50710			AA	2003	0109	CA	2002-	24507	10		2002062	24
EP 14	12538			A2	2004	0428	EP	2002-	74664	7		2002062	24
R	: AT, IE,	BE, FI,			DK, ES,	FR,	GB, GI	R, IT,	LI,	LU,	NL, S	E, MC, E	РΤ,
JP 20	055181	86		Т2	2005	0623	JP	2003-	50911	0		2002062	24
PRIORITY A	PPLN.	INFO	. :				US	2001-	89198	3	Α	2001062	26
							US	2002-	17348	0	Α	2002061	L7
							WO	2002-	US199	58	W	2002062	24

AB The subject invention relates to methods for the simultaneous detection of Hepatitis C Virus (HCV) antigens as well as antibodies produced in response to HCV antigens. Furthermore, the subject invention allows one to detect antigens in the early, acute stage of infection, even prior to the development of antibodies, thereby allowing for early detection of infected blood and blood products, thus improving the safety of the blood supply.

L70 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:298250 CAPLUS

DOCUMENT NUMBER: 131:127333

TITLE:

Use of a novel hepatitis C virus (HCV)

major-epitope chimeric polypeptide for diagnosis of

HCV infection

Chien, David Y.; Arcangel, Phillip; Medina-Selby, AUTHOR(S):

Angelica; Coit, Doris; Baumeister, Mark; Nguyen, Steve; George-Nascimento, Carlos; Gyenes, Alexander;

Kuo, George; Valenzuela, Pablo

Chiron Corporation, Emeryville, CA, 94507, USA CORPORATE SOURCE: SOURCE:

Journal of Clinical Microbiology (1999), 37(5),

1393-1397

CODEN: JCMIDW; ISSN: 0095-1137 American Society for Microbiology

DOCUMENT TYPE: Journal LANGUAGE: English

PUBLISHER:

The genome of hepatitis C virus (HCV) consists of seven functional regions: the core, E1, E2/NS1, NS2, NS3,

NS4, and NS5 regions. The U.S. Food and Drug

Administration-licensed 2.0G immunoassay for the detection of anti-

HCV uses proteins from the core, NS3, and

NS4 regions. The 3.0G ELISA includes the protein from the

NS5 region. The necessity of detecting antibodies to viral

envelope proteins (E1 and E2) and to different genotype samples has been demonstrated previously. In this study we have attempted to improve the sensitivity of the anti-HCV assay by developing a single

multiple-epitope fusion antigen (MEFA; MEFA-6) which incorporates all of

the major immunodominant epitopes from the seven functional regions of the **HCV** genome. A nucleic acid sequence consisting of proteins from the viral **core**, E1, E2, NS3, NS4, and

NS5 regions and different subtype-specific regions of the NS4 region was constructed, cloned, and expressed in yeast. The epitopes present on this antigen can be detected by epitope-specific monoclonal and polyclonal antibodies. In a competition assay, the MEFA-6 protein competed with 83 to 96% of genotype-specific antibodies from HCV genotype-specific peptides. This recombinant antigen was subsequently used to design an anti-HCV chemiluminescent immunoassay. We designed our assay using a monoclonal anti-human IgG antibody bound to the solid phase. Because MEFA-6 is fused with human superoxide dismutase (h-SOD), we used an anti-human superoxide dismutase, di-Me acridinium ester-labeled monoclonal antibody for detection. Our results indicate that MEFA-6 exposes all of the major immunogenic epitopes. Its excellent sensitivity and specificity for the detection of clin. seroconversion are demonstrated by this assay.

REFERENCE COUNT:

17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L70 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:743751 CAPLUS

DOCUMENT NUMBER: 128:47287

TITLE: C type hepatitis virus disease diagnostic agent

INVENTOR(S): Takahama, Yoichi; Shiraishi, Junichi
PATENT ASSIGNEE(S): Toa Medical Electronics Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09297141	A2	19971118	JP 1996-112442	19960507
TW 562927	В	20031121	TW 1997-86105490	19970426
US 6379886	B1	20020430	US 1997-850328	19970502
EP 806669	A2	19971112	EP 1997-107368	19970505
EP 806669	A3	19971126		
EP 806669	B1	20020410		
R: BE, DE, FR,	GB, IT			
CN 1170875	Α	19980121	CN 1997-109798	19970506
US 2002081630	A1	20020627	US 2001-28172	20011221
PRIORITY APPLN. INFO.:			JP 1996-112442	A 19960507
•			US 1997-850328	A1 19970502

AB Hepatitis C virus antigen or carrier protein conjugate is coated on a solid support and used for detecting anti-hepatitis C virus antibody and for diagnosing HCV infection. The HCV antigen is core antigen, NS3 antigen, NS4 antigen, or NS5 antigen, and the carrier protein is bovine serum albumin, egg white albumin or hemocyanin.

```
=> HCV
         29714 HCV
L1
=> hemagglutination
         22293 HEMAGGLUTINATION
=> L1 and L2
            39 L1 AND L2
=> duplicate
ENTER REMOVE, IDENTIFY, ONLY, OR (?):L3
'L9' IS NOT VALID HERE
Enter "REMOVE" to identify and remove duplicate answers.
Enter "IDENTIFY" to identify duplicate answers in the answer set.
Enter "ONLY" to identify and create an answer set containing only
duplicate records.
ENTER REMOVE, IDENTIFY, ONLY, OR (?):duplicate
'DUPLICATE! IS NOT VALID HERE
Enter "REMOVE" to identify and remove duplicate answers.
Enter "IDENTIFY" to identify duplicate answers in the answer set.
Enter "ONLY" to identify and create an answer set containing only
duplicate records.
ENTER REMOVE, IDENTIFY, ONLY, OR (?):L3
'L9' IS NOT VALID HERE
Enter "REMOVE" to identify and remove duplicate answers.
Enter "IDENTIFY" to identify duplicate answers in the answer set.
Enter "ONLY" to identify and create an answer set containing only
duplicate records.
ENTER REMOVE, IDENTIFY, ONLY, OR (?):only
ENTER L# LIST OR (END):L3
PROCESSING COMPLETED FOR L3
              8 DUPLICATE ONLY L3
=> L39 and 3rd (w) generation
L39 NOT FOUND
The L-number entered could not be found. To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).
```

=> L3 and 3rd generation L5 0 L3 AND 3RD GENERATION

=> D L3 IBIB ABS 1-39

L3 ANSWER 29 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on

STN

ACCESSION NUMBER: 1995:555675 BIOSIS DOCUMENT NUMBER: PREV199698569975

TITLE: Intrafamilial transmission of hepatitis C virus among the

population of an endemic area of Japan.

AUTHOR(S): Nakashima, Koya [Reprint author]; Ikematsu, Hideyuki;

Hayashi, Jun; Kishihara, Yasuhiro; Mitsutake, Arahito;

Kashiwagi, Seizaburo

CORPORATE SOURCE: Dep. Gen. Med., Kyushu Univ. Hosp., 71 Higashi-ku, Fukuoka

812, Japan

SOURCE: JAMA (Journal of the American Medical Association), (1995)

Vol. 274, No. 18, pp. 1459-1461. CODEN: JAMAAP. ISSN: 0098-7484.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 31 Dec 1995

Last Updated on STN: 31 Dec 1995

AB Objectives: To assess the role of intrafamilial transmission of hepatitis C virus (HCV) among general populations. Design and Setting:

Cross-sectional study in an HCV-endemic area of Japan.

Participants: A total of 1122 residents (mean age, 41.7 years; range, 0 to 80 years), including 359 mother-child pairs and 234 pairs of spouses.

Main Outcome Measures: Antibody to HCV (anti-HCV) was examined using second-generation anti-HCV testing by passive hemagglutination assay. Hepatitis C virus RNA was detected by polymerase chain reaction with primers deduced from the 5'-noncoding region and HCV genotypes by reaction with type-specific primers deduced from the HCV core gene. Results: Prevalence of anti-HCV was 14.1% (158/1122), and HCV RNA was detected in 82.9% of those who tested positive for anti-HCV. Prevalence of Conclusions: While HCV is highly endemic in this area, neither vertical nor horizontal transmission between spouses seems to play an important role in its spread. The incidence of intrafamilial transmission of HCV seems to be low.

L3 ANSWER 30 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on

STN.

ACCESSION NUMBER: 1995:494961 BIOSIS DOCUMENT NUMBER: PREV199598518511

TITLE: The virological and Histological States of Anti-Hepatitis C

Virus-Positive Subjects With Normal Liver Biochemical

Values.

AUTHOR(S): Shindo, Michiko [Reprint author]; Arai, Ken; Sokawa,

Yoshihiro; Okuno, Tadao

CORPORATE SOURCE: Akashi Municipal Hosp., 1-33 Takashomachi, Akashi, Hyogo

673, Japan

SOURCE: Hepatology, (1995) Vol. 22, No. 2, pp. 418-425.

CODEN: HPTLD9. ISSN: 0270-9139.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 29 Nov 1995

Last Updated on STN: 29 Nov 1995

We investigated anti-hepatitis C virus (HCV) titers, HCV RNA levels in liver and serum, genetic variability in the hypervariable region of the genome, the form of the virus in the circulation, and liver histology in 21 anti-HCV-positive subjects with sustained normal liver biochemical values. Titer of anti-HCV was determined by second generation anti-HCV-passive hemagglutination assay, and HCV RNA levels were semiquantitated by reverse transcriptase polymerase chain reaction (PCR). In 19 (90%) of the 21 subjects who had a higher titer of anti-HCV (gtoreq 2-14), HCV RNA was detected in both serum and liver, and histological examination showed minimal or mild chronic hepatitis in all. In the remaining 2 patients who had a lower titer of anti-HCV, HCV RNA was not detected in serum and liver, and liver histology was normal. Anti-HCV titers and HCV RNA levels in serum and liver in the 19 HCV RNA-positive subjects were compared with those levels in the 41 patients with biopsy-proven chronic

hepatitis C and elevated serum aminotransferase levels as a control group. There were no significant differences in viral levels in serum and liver between the two groups. To further investigate virological differences between the two groups with regard to degree of genetic variability and the form in the circulation, we performed the PCR-single strand conformation polymorphism (PCR-SSCP) of the hypervariable region 1 and the immunoprecipitation analyses. PCR-SSCP showed that the anti-HCV -positive subjects with normal liver biochemical values had quasispecies nature of the HCV genome similar to the patients with chronic hepatitis C, and the immunoprecipitation analysis showed that the virus circulated both in immune complexes and in the free form in both groups. These findings indicated that both groups had similar virological characteristics but showed different patterns of serum aminotransferase levels and histological findings, suggesting that the two groups may have different immune responses to the virus.

L3 ANSWER 31 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on

STN

ACCESSION NUMBER: 1995:411046 BIOSIS DOCUMENT NUMBER: PREV199598425346

TITLE: High proportion of false positive reactions among donors

with anti-HCV antibodies in a low prevalence

area.

AUTHOR(S): Sakugawa, Hiroshi [Reprint author]; Nakasone, Hiroki;

Nakayoshi, Tomofumi; Kinjo, Fukunori; Saito, Atsushi; Yakabi, Shizuko; Zukeran, Hiroki; Miyagi, Yasuhiro; Taira, Reiko; Koja, Keishun; Uezu, Tomio; Kina, Morio; Omine,

Keisho

CORPORATE SOURCE: First Dep. Internal Med., Univ. Hosp. Fac. Med., University

Ryukyus, 207 Uehara, Nishihara-cho, Okinawa, Japan

SOURCE: Journal of Medical Virology, (1995) Vol. 46, No. 4, pp.

334-338.

CODEN: JMVIDB. ISSN: 0146-6615.

DOCUMENT TYPE:

Article English

ENTRY DATE:

LANGUAGE:

Entered STN: 27 Sep 1995

Last Updated on STN: 27 Sep 1995

AB Among 39,656 voluntary blood donors in Okinawa Prefecture, Japan, 115 (0.29%) were repeatedly reactive for antibody to hepatitis C virus (anti-

HCV) by second generation (2nd-gen) passive

hemagglutination assay (PHA). Positive serum samples were tested for anti-HCV using three different enzyme immunosorbent assays (ELISAs; Abbott 2nd EIA, UBI-HCV-EIA, JCC-2) and for HCV -RNA by the polymerase chain reaction (PCR). The 115 2nd-gen PHA-positive sera were divided into three groups according to the agglutination titers; gt 2-10 (high titer group), 2-7-2-9 (median), 2-5-2-6 (low). All but one serum (44/45) in the high PHA titer group reacted in each of the three second screening ELISAs. Furthermore, 43 (97.7%) of the 44 sera contained HCV-RNA by PCR. In the median titer group, 11 of the 13 samples tested were positive by each of the three ELSIAs, and 4 (36.4%) of the 11 showed reaction by PCR. On the other hand, all of the 38 sera tested in the low titer group were negative for HCV-RNA by PCR, and 24 of the 38 were also negative by each of the three ELISAs. Most of the low titer positive reactions in the 2nd-gen agglutination assay seemed to be false positive. In Okinawa Prefecture, the prevalence of anti-HCV among blood donors is much lower than in the rest of Japan (0.29% vs. 1.11%). Moreover, a significant proportion of these sera were low titer by the PHA assay. The difference in the genuine anti-HCV

-positive rate, or the prevalence of HCV carriage between Okinawa Prefecture and the rest of Japan may therefore be even greater than is presently assumed.

L3 ANSWER 39 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on

STN

ACCESSION NUMBER: 1993:253320 BIOSIS DOCUMENT NUMBER: PREV199395132495

TITLE: Detection of antibodies to hepatitis C virus (HCV

) structural proteins in anti-HCV-positive sera

by an enzyme-linked immunosorbent assay using synthetic

peptides as antigens.

AUTHOR(S): Ishida, Chuzo; Matsumoto, Koji; Fukada, Kenji; Matsushita,

Kihachiro; Shiraki, Hiroshi [Reprint author]; Maeda,

Yoshiaki

CORPORATE SOURCE: Fukuoka Red Cross Blood Center, 232-11 Kamikoga,

Chikushino, Fukuoka 818, Japan

SOURCE: Journal of Clinical Microbiology, (1993) Vol. 31, No. 4,

pp. 936-940.

CODEN: JCMIDW. ISSN: 0095-1137.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 21 May 1993

Last Updated on STN: 22 May 1993

AB We have defined 10 linear immunogenic regions encoded by the putative hepatitis C virus (HCV) structural proteins (core and envelope) by employing an enzyme-linked immunosorbent assay (ELISA) and by using 17 sequential synthetic peptides covering the N-terminal 330 amino acids of the structural polyproteins as antigens. These peptides correspond to amino acids 1 to 24, 21 to 44, 42 to 68, 64 to 91, and 100 to 120 of the putative core protein and amino acids 192 to 212, 223 to 238, 236 to 258, 250 to 266, and 307 to 330 of the putative envelope protein. In particular, the peptide covering amino acids 21 to 44 of the core protein was reactive with all but one (40 of 41) of the serum samples giving a positive signal in the passive hemagglutination assay (PHA) using the core and nonstructural proteins (NS 3/4) of the virus as antigens. We detected the HCV genome in 25 (61%) of 41 PHA-positive serum samples by the polymerase chain reaction (PCR) test. Of 25 PCR-positive serum samples, 17 serum samples had reactivity to the peptides derived from the envelope protein. On the other hand, only 1 of the 16 PCR-negative serum samples had reactivity to the peptides derived from the envelope protein. Interestingly, we often observed high serum alanine aminotransferase levels in PCR-positive individuals bearing antibodies to the envelope protein.